Giuseppina Monti

List of Publications by Year
in descending order

133	1,975	257357	315616
papers	citations	24 h-index	38 g-index

134	134	134	1624
all docs	docs citations	times ranked	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	UHF Wearable Rectenna on Textile Materials. IEEE Transactions on Antennas and Propagation, 2013, 61, 3869-3873.	3.1	111
3	Resonant Inductive Link for Remote Powering of Pacemakers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3814-3822.	2.9	70
4	Wearable Antennas: Nontextile Versus Fully Textile Solutions. IEEE Antennas and Propagation Magazine, 2019, 61, 71-83.	1.2	68
5	Wearable Antennas for Remote Health Care Monitoring Systems. International Journal of Antennas and Propagation, 2017, 2017, 1-11.	0.7	58
6	A Noninvasive Resonance-Based Method for Moisture Content Evaluation Through Microstrip Antennas. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1420-1426.	2.4	48
7	Wireless Power Transfer System With High Misalignment Tolerance for Bio-Medical Implants. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3023-3027.	2.2	46
8	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
9	X-Band Planar Rectenna. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1116-1119.	2.4	43
10	DESIGN OF A 3-STATE RECONFIGURABLE CRLH TRANSMISSION LINE BASED ON MEMS SWITCHES. Progress in Electromagnetics Research, 2009, 95, 283-297.	1.6	40
11	COMPACT MICROSTRIP ANTENNA FOR RFID APPLICATIONS. Progress in Electromagnetics Research Letters, 2009, 8, 191-199.	0.4	39
12	Wearable logoâ€antenna for GPSâ€“GSMâ€based tracking systems. IET Microwaves, Antennas and Propagation, 2016, 10, 1332-1338.	0.7	38
13	Fully-Textile, Wearable Chipless Tags for Identification and Tracking Applications. Sensors, 2020, 20, 429.	2.1	38
14	Thickness dependence of the amplified spontaneous emission threshold and operational stability in poly(9,9-dioctylfluorene) active waveguides. Journal of Applied Physics, 2012, 111, .	1.1	37
15	MONOPOLE-BASED RECTENNA FOR MICROWAVE ENERGY HARVESTING OF UHF RFID SYSTEMS. Progress in Electromagnetics Research C, 2012, 31, 109-121.	0.6	37
16	NEGATIVE GROUP VELOCITY IN A SPLIT RING RESONATOR-COUPLED MICROSTRIP LINE. Progress in Electromagnetics Research, 2009, 94, 33-47.	1.6	32
17	Assessment of a TD-Based Method for Characterization of Antennas. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1412-1419.	2.4	31
18	PATCH ANTENNA WITH RECONFIGURABLE POLARIZATION. Progress in Electromagnetics Research C, 2009, 9, 13-23.	0.6	30

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19	A Frequency Signature RFID Chipless Tag for Wearable Applications. Sensors, 2019, 19, 494.	2.1	30
20	UHF RECTENNA USING A BOWTIE ANTENNA. Progress in Electromagnetics Research C, 2012, 26, 181-192.	0.6	29
21	A 2.45-GHz Vivaldi Rectenna for the Remote Activation of an End Device Radio Node. IEEE Sensors Journal, 2013, 13, 3454-3461.	2.4	29
22	Feasibility of a Wearable Reflectometric System for Sensing Skin Hydration. Sensors, 2020, 20, 2833.	2.1	28
23	EXPERIMENTAL CHARACTERIZATION OF A 434 MHZ WIRELESS ENERGY LINK FOR MEDICAL APPLICATIONS. Progress in Electromagnetics Research C, 2012, 30, 53-64.	0.6	27
24	Durability of Wearable Antennas Based on Nonwoven Conductive Fabrics: Experimental Study on Resistance to Washing and Ironing. International Journal of Antennas and Propagation, 2018, 2018, 1-8.	0.7	25
25	TDR-based monitoring of rising damp through the embedding of wire-like sensing elements in building structures. Measurement: Journal of the International Measurement Confederation, 2017, 98, 355-360.	2.5	22
26	EMC and EMI issues of WPT systems for wearable and implantable devices. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 67-77.	0.1	22
27	Logo antenna on textile materials. , 2014, , .		21
28	Rigorous design of matched wireless power transfer links based on inductive coupling. Radio Science, 2016, 51, 858-867.	0.8	21
29	Parallel efficient method of moments exploiting graphics processing units. Microwave and Optical Technology Letters, 2010, 52, 2568-2572.	0.9	20
30	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
31	Gain expressions for resonant inductive wireless power transfer links with one relay element. Wireless Power Transfer, 2018, 5, 27-41.	0.9	20
32	Wireless resonant energy link for pulse generators implanted in the chest. IET Microwaves, Antennas and Propagation, 2017, 11, 2201-2210.	0.7	19
33	Optimal design of a wireless power transfer link using parallel and series resonators. Wireless Power Transfer, 2016, 3, 105-116.	0.9	18
34	A Network Approach for Wireless Resonant Energy Links Using Relay Resonators. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3271-3279.	2.9	18
35	BROAD-BAND DIPOLE FOR RFID APPLICATIONS. Progress in Electromagnetics Research C, 2010, 12, 163-172.	0.6	17
36	Magnetically coupled resonant wireless power transmission: An artificial transmission line approach. , 2012, , .		17

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37	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
38	ISM BAND RECTENNA USING A RING LOADED MONOPOLE. Progress in Electromagnetics Research C, 2012, 33, 1-15.	0.6	16
39	A Wearable Wireless Energy Link for Thin-Film Batteries Charging. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	0.7	15
40	A Chipless Humidity Sensor for Wearable Applications. , 2019, , .		15
41	A MICROSTRIP ANTENNA WITH A RECONFIGURABLE PATTERN FOR RFID APPLICATIONS. Progress in Electromagnetics Research B, 2012, 45, 101-116.	0.7	14
42	MPIE/MoM Acceleration With a General-Purpose Graphics Processing Unit. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2693-2701.	2.9	14
43	Textile logo antennas. , 2014, , .		14
44	Dry Textile Electrodes for Wearable Bio-Impedance Analyzers. IEEE Sensors Journal, 2020, 20, 6139-6147.	2.4	14
45	Wearable antennas for applications in remote assistance to elderly people. , 2017, , .		13
46	Low-Cost Chipless Sensor Tags for Wearable User Interfaces. IEEE Sensors Journal, 2019, 19, 10046-10053.	2.4	13
47	Radio-frequency Identification Based on Textile, Wearable, Chipless Tags for IoT Applications. , 2019, , .		13
48	Portable Microwave Reflectometry System for Skin Sensing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	2.4	13
49	Dual-band artificial transmission lines branch-line coupler. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 53-62.	0.8	12
50	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
51	Inductive link for power and data transfer to a medical implant. Wireless Power Transfer, 2017, 4, 98-112.	0.9	12
52	GAINS MAXIMIZATION VIA IMPEDANCE MATCHING NETWORKS FOR WIRELESS POWER TRANSFER. Progress in Electromagnetics Research, 2019, 164, 135-153.	1.6	12
53	PLANAR BOWTIE ANTENNA WITH A RECONFIGURABLE RADIATION PATTERN. Progress in Electromagnetics Research C, 2012, 28, 61-70.	0.6	12
54	METAL FOAMS FOR ELECTROMAGNETICS: EXPERIMENTAL, NUMERICAL AND ANALYTICAL CHARACTERIZATION. Progress in Electromagnetics Research B, 2012, 45, 1-18.	0.7	11

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55	Wireless power transfer between one transmitter and two receivers: optimal analytical solution. Wireless Power Transfer, 2016, 3, 63-73.	0.9	11
56	Compact broadband monolithic 3â€dB coupler by using artificial transmission lines. Microwave and Optical Technology Letters, 2008, 50, 2662-2667.	0.9	10
57	New materials for electromagnetic shielding: Metal foams with plasma properties. Microwave and Optical Technology Letters, 2010, 52, 1700-1705.	0.9	10
58	Modified bowtie antenna for GPR applications. , 2010, , .		10
59	Radiofrequency characterization of polydimethylsiloxane â€“ iron oxide based nanocomposites. Microelectronic Engineering, 2013, 111, 46-51.	1.1	10
60	Compact resonator on leather for nonradiative inductive power transfer and farâ€field data links. Radio Science, 2016, 51, 629-637.	0.8	10
61	Accuracy improvement in the TDR-based localization of water leaks. Results in Physics, 2016, 6, 594-598.	2.0	10
62	Textile Wearable Antenna for Firefighters Positioning. , 2019, , .		10
63	Signal reshaping in a transmission line with negative group velocity behavior. Microwave and Optical Technology Letters, 2009, 51, 2627-2633.	0.9	9
64	Broadband compact planar monopole. Microwave and Optical Technology Letters, 2011, 53, 2838-2842.	0.9	9
65	Wireless energy link for deep brain stimulation. , 2015, , .		9
66	A wearable wireless energy link. , 2015, , .		9
67	A Fully-Textile Chipless Tag. , 2018, , .		9
68	Optimal Terminations for a Single-Input Multiple-Output Resonant Inductive WPT Link. Energies, 2020, 13, 5157.	1.6	9
69	Microwave Wearable System for Sensing Skin Hydration. , 2021, , .		9
70	Textile Chipless Tag for Gesture Recognition. IEEE Sensors Journal, 2021, 21, 18279-18286.	2.4	9
71	Wireless Power Transfer Strategies for Medical Implants: Focus on Robustness and EM Compatibility. IEEE Microwave Magazine, 2021, 22, 28-41.	0.7	9
72	Reduced-size broadband CRLH-ATL Rat-Race coupler. , 2006, , .		8

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73	Circuit model of carbon-nanotube inks for microelectronic and microwave tunable devices. , 2011, , .		8
74	A Comparative Analysis of Reflectometry Methods for Characterization of Antennas. , 2008, , .		7
75	A Non-Invasive Approach for Moisture Measurements through Patch Antennas. , 2008, , .		7
76	On the use of a Rat-Race Coupler in the Design of a 180Â° Phase Shifter. Journal of Electromagnetic Waves and Applications, 2009, 23, 1201-1210.	1.0	7
77	Circuit model of carbon-nanotube inks for microelectronic and microwave tunable devices. , 2011, , .		7
78	Resonant Energy Scavenger for Sensor Powering by Spurious Emissions From Compact Fluorescent Lamps. IEEE Sensors Journal, 2014, 14, 2347-2354.	2.4	7
79	Capacitive Wireless Power Transfer with Multiple Transmitters: Efficiency Optimization. Energies, 2020, 13, 3482.	1.6	7
80	Load-Independent Operative Regime for an Inductive Resonant WPT Link in Parallel Configuration. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1809-1818.	2.9	7
81	Wearable, Energy-Autonomous RF Microwave Systems: Chipless and Energy-Harvesting-Based Wireless Systems for Low-Power, Low-Cost Localization and Sensing. IEEE Microwave Magazine, 2022, 23, 24-38.	0.7	7
82	Wireless power transfer between one transmitter and two receivers: Optimal analytical solution. , 2015, , .		6
83	Wireless power transfer link for rechargeable deep brain stimulators. , 2015, , .		5
84	Optimal Couplings for a Four-coils WPT Link. , 2018, , .		5
85	Multiple Input Multiple Output Resonant Inductive WPT Link: Optimal Terminations for Efficiency Maximization. Energies, 2021, 14, 2194.	1.6	5
86	Gaussian pulse expansion of modulated signals in a double-negative slab. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2755-2761.	2.9	4
87	MEMSâ€reconfigurable bandpass filter. Microwave and Optical Technology Letters, 2008, 50, 2096-2099.	0.9	4
88	Experimental validation of a plasma model for electromagnetic metal foam shields. , 2009, , .		4
89	Iterative Solution of Linear Systems in Electromagnetics (And Not Only): Experiences with CUDA. Lecture Notes in Computer Science, 2011, , 329-337.	1.0	4
90	GHz Properties of Magnetophoretically Aligned Iron-Oxide Nanoparticle Doped Polymers. ACS Applied Materials & Interfaces, 2013, 5, 2908-2914.	4.0	4

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91	Wireless power link for rechargeable pacemakers. , 2017, , .		4
92	Conjugate image impedance matching for maximizing the gains of a WPT link. , 2018, , .		4
93	Transducer gain maximization for a resonant inductive WPT link using relay resonators. , 2018, , .		4
94	Wireless Resonant Energy Link for Joint Flexion Monitoring: Experimental Investigation by Using a NanoVNA. , 2022, , .		4
95	A Parallel-Grid-Enabled Variable-Mesh FDTD Approach for the Analysis of Slabs of Double-Negative Metamaterials. , 0, , .		3
96	Wireless system for biological signal recording with Gallium Arsenide high electron mobility transistors as sensing elements. Microelectronic Engineering, 2013, 111, 354-359.	1.1	3
97	Power generation by spurious emissions from compact fluorescent lamps. , 2014, , .		3
98	Wireless power transmission from two transmitters to one receiver: Optimal design for power maximization. , 2016, , .		3
99	Matched resonant inductive WPT using the coupling-independent regime: Theory and experiments. , 2017, , .		3
100	Gain Expressions for Capacitive Wireless Power Transfer with One Electric Field Repeater. Electronics (Switzerland), 2021, 10, 723.	1.8	3
101	A novel theoretical formulation for the analysis of the propagation of finite-bandwidth signals in a double-negative slab. Microwave and Optical Technology Letters, 2005, 47, 434-439.	0.9	2
102	On the propagation of a Gaussian pulse in a double-negative slab. , 2005, , .		2
103	GPUâ€based acceleration of computational electromagnetics codes. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 309-323.	1.2	2
104	A novel circuit model of nanotechnology-enabled inkjet-printed gas sensors using multi-wall carbon nanotubes. , 2013, , .		2
105	Energy harvesting of spurious emissions of compact fluorescent lamps for home monitoring applications. , 2014, , .		2
106	A wireless power link on leather for applications in the clothing industry. , 2015, , .		2
107	Non-radiative Wireless Power Transmission: Theory and Applications. , 2016, , 3-30.		2
108	Characterization of wireless power transfer links by network invariants. , 2017, , .		2

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109	Misalignments Issues in WPT Links for Medical Implants. , 2018, , .		2
110	Power maximization for a multipleâ€“input and multiple-output wireless power transfer system described by the admittance matrix. , 2020, , .		2
111	Dispersion analysis of a planar negative group velocity-transmission line. , 2007, , .		1
112	A THREE-BAND T-JUNCTION POWER DIVIDER BASED ON ARTIFICIAL TRANSMISSION LINES. Progress in Electromagnetics Research C, 2013, 34, 41-52.	0.6	1
113	NOVEL PLANAR ANTENNA WITH A BROADSIDE RADIATION. Progress in Electromagnetics Research Letters, 2013, 38, 45-53.	0.4	1
114	Power maximization in a WPT link using three transmitters and a single receiver. , 2016, , .		1
115	Twoâ€port network approach for a wireless power transfer link using a cascade of inductively coupled resonators. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2234.	1.2	1
116	WPT Link with Relay Elements for Recharging a Pacemaker. , 2018, , .		1
117	Optimal Terminating Impadances for Maximizing the Gains of a Four-Coil WPT Link. , 2018, , .		1
118	Maxwellâ€™s Equations and Potentials in Dirac form using Geometric Algebra. , 2019, , .		1
119	On the Use of Matching Networks and Relays for Maximizing the Gains of IR WPT Links. , 2019, , .		1
120	Load-Independent Inductive Resonant WPT Links. , 2019, , .		1
121	Low-cost System for Skin Sensing. , 2021, , .		1
122	General Procedure to Optimize a MIMO Capacitive Wireless Power Transfer System. , 2021, , .		1
123	Bracelet Textile Electrodes for Bioimpedance Measurements. , 2022, , .		1
124	Dispersion analysis of a planar negative group velocity-transmission line. , 2007, , .		0
125	Energy detection and radiation by metallic rings embedded into a self-rolled InxGa1-xAs/GaAs micro-tube. , 2010, , .		0
126	Energy detection and radiation by metallic rings embedded into a self-rolled In<inf>x</inf>Ga<inf>1-x</inf>As/GaAs micro-tube. , 2010, , .		0

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127	A novel biotelemetry system to monitor human vital signs. , 2012, , .		0
128	3D patch antenna using a cardbord substrate for RFID reader applications. , 2012, , .		0
129	Electromagnetic Compatibility Analysis of a WPT Link for Rechargeable Pacemakers. , 2017, , .		0
130	Efficiency optimization of a three-coil resonant energy link. Wireless Power Transfer, 2019, 6, 126-137.	0.9	0
131	Gains Maximization for Two-port WPT Links with Three Coils. , 2019, , .		0
132	Good Teachers Do Make the Difference [Women in Microwaves]. IEEE Microwave Magazine, 2020, 21, 68-70.	0.7	0
133	Multiple Inputs Inductive WPT: Efficiency Analysis by Using a Generalized Eigenvalue Approach. , 2021, , .		0