

# Alessandra Costanzo

## List of Publications by Year in descending order

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220  
papers

2,945  
citations

218381  
26  
h-index

233125  
45  
g-index

222  
all docs

222  
docs citations

222  
times ranked

2441  
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	Wireless Power Transmission: R&D Activities Within Europe. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1031-1045.	2.9	138
3	State-of-the-art harmonic-balance simulation of forced nonlinear microwave circuits by the piecewise technique. IEEE Transactions on Microwave Theory and Techniques, 1992, 40, 12-28.	2.9	118
4	A Load-Modulated Rectifier for RF Micropower Harvesting With Start-Up Strategies. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 994-1004.	2.9	102
5	Energizing 5G: Near- and Far-Field Wireless Energy and Data Transfer as an Enabling Technology for the 5G IoT. IEEE Microwave Magazine, 2017, 18, 125-136.	0.7	100
6	Genetic-based design of a tetra-band high-efficiency radio-frequency energy harvesting system. IET Microwaves, Antennas and Propagation, 2013, 7, 1254-1263.	0.7	97
7	Computer-Aided Optimization of Nonlinear Microwave Circuits With the Aid of Electromagnetic Simulation. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 362-377.	2.9	90
8	HABITAT: An IoT Solution for Independent Elderly. Sensors, 2019, 19, 1258.	2.1	74
9	A single feed dual-band circularly polarized millimeter-wave antenna for 5G communication. , 2016, , .		71
10	Time-Modulation of Linear Arrays for Real-Time Reconfigurable Wireless Power Transmission. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-12.	2.9	71
11	A 1-kW Contactless Energy Transfer System Based on a Rotary Transformer for Sealing Rollers. IEEE Transactions on Industrial Electronics, 2014, 61, 6337-6345.	5.2	65
12	Toward 1G Mobile Power Networks: RF, Signal, and System Designs to Make Smart Objects Autonomous. IEEE Microwave Magazine, 2018, 19, 69-82.	0.7	64
13	Load- and Position-Independent Moving MHz WPT System Based on GaN-Distributed Current Sources. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5367-5376.	2.9	61
14	RF/baseband co-design of switching receivers for multiband microwave energy harvesting. Sensors and Actuators A: Physical, 2012, 179, 158-168.	2.0	58
15	Theoretical and Numerical Design of a Wireless Power Transmission Link With GaN-Based Transmitter and Adaptive Receiver. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 931-946.	2.9	54
16	Tag, You're It: Ranging and Finding via RFID Technology. IEEE Microwave Magazine, 2013, 14, 36-46.	0.7	51
17	A Novel Integrated UWB-UHF One-Port Antenna for Localization and Energy Harvesting. IEEE Transactions on Antennas and Propagation, 2015, 63, 3839-3848.	3.1	50
18	Remotely Identify and Detect by a Compact Reader With Mono-Pulse Scanning Capabilities. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 641-650.	2.9	45

#	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	Coupling-Independent Wireless Power Transfer. IEEE Microwave and Wireless Components Letters, 2016, 26, 222-224.	2.0	41
21	Fall Detection and 3-D Indoor Localization by a Custom RFID Reader Embedded in a Smart e-Health Platform. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5329-5339.	2.9	34
22	Energy Autonomous UWB Localization. IEEE Journal of Radio Frequency Identification, 2017, 1, 228-244.	1.5	30
23	Evolution of SWIPT for the IoT World: Near- and Far-Field Solutions for Simultaneous Wireless Information and Power Transfer. IEEE Microwave Magazine, 2021, 22, 48-59.	0.7	30
24	ANN-based design of a versatile millimetre-wave slotted patch multi-antenna configuration for 5G scenarios. IET Microwaves, Antennas and Propagation, 2017, 11, 1288-1295.	0.7	29
25	A Long-Distance RF-Powered Sensor Node with Adaptive Power Management for IoT Applications. Sensors, 2017, 17, 1732.	2.1	29
26	Towards a terahertz direct receiver based on graphene up to 10 THz. Journal of Applied Physics, 2014, 115, .	1.1	28
27	Prediction of the End-to-End Performance of a Microwave/RF Link by Means of Nonlinear/Electromagnetic Co-Simulation. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4149-4160.	2.9	26
28	Graphene as a high impedance surface for ultra-wideband electromagnetic waves. Journal of Applied Physics, 2013, 114, .	1.1	24
29	Harmonic-balance analysis of microwave oscillators with automatic suppression of degenerate solution. Electronics Letters, 1992, 28, 256.	0.5	23
30	Co-Design Strategies for Energy-Efficient UWB and UHF Wireless Systems. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1852-1863.	2.9	23
31	Optimum Excitations for a Dual-Band Microwatt Wake-Up Radio. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4731-4739.	2.9	22
32	EMC and EMI issues of WPT systems for wearable and implantable devices. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 67-77.	0.1	22
33	A UHF Near-Field Link for Passive Sensing in Industrial Wireless Power Transfer Systems. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1634-1643.	2.9	21
34	Rigorous design of matched wireless power transfer links based on inductive coupling. Radio Science, 2016, 51, 858-867.	0.8	21
35	High-Accuracy Localization of Passive Tags With Multisine Excitations. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5894-5908.	2.9	21
36	Computer-Aided Design of Ultra-Wideband Active Antennas by Means of a New Figure of Merit. IEEE Microwave and Wireless Components Letters, 2008, 18, 290-292.	2.0	20

#	ARTICLE	IF	CITATIONS
37	A 2.45-GHz Energy-Autonomous Wireless Power Relay Node. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4511-4520.	2.9	20
38	THz Rectennas and Their Design Rules. Electronics (Switzerland), 2017, 6, 99.	1.8	20
39	Co-design of ultra-low power RF/Microwave receivers and converters for RFID and energy harvesting applications. , 2010, , .		19
40	Harmonic balance design of wireless resonant-type power transfer links. , 2012, , .		19
41	RF-Powered Low-Energy Sensor Nodes for Predictive Maintenance in Electromagnetically Harsh Industrial Environments. Sensors, 2021, 21, 386.	2.1	19
42	Optimal design of a wireless power transfer link using parallel and series resonators. Wireless Power Transfer, 2016, 3, 105-116.	0.9	18
43	Quasi-isotropic RF energy harvester for autonomous long distance IoT operations. , 2017, , .		18
44	A Wearable Flexible Energy-Autonomous Filtenna for Ethanol Detection at 2.45 GHz. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4093-4106.	2.9	18
45	A New Wireless Displacement Sensor Based on Reverse Design of Microwave and Millimeter-Wave Antenna Array. IEEE Sensors Journal, 2009, 9, 1557-1566.	2.4	17
46	Rigorous network modeling of magnetic-resonant wireless power transfer. Wireless Power Transfer, 2014, 1, 27-34.	0.9	17
47	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
48	An accurate bilateral FET model suitable for general nonlinear and power applications. International Journal of RF and Microwave Computer-Aided Engineering, 2000, 10, 43-62.	0.8	16
49	Integration of numerical and field-theoretical techniques in the design of single- and multi-band rectennas for micro-power generation. International Journal of Microwave and Wireless Technologies, 2010, 2, 293-303.	1.5	16
50	Exploitation of a novel magneto-dielectric substrate for miniaturization of wearable UHF antennas. Materials Letters, 2012, 87, 127-130.	1.3	16
51	Long Range Battery-Less UHF-RFID Platform for Sensor Applications. , 2019, , .		16
52	Integration of non-linear, radiation, and propagation CAD techniques for MIMO link design. International Journal of Microwave and Wireless Technologies, 2012, 4, 223-232.	1.5	15
53	Rigorous design of magnetic-resonant wireless power transfer links realized with two coils. , 2014, , .		14
54	Exploitation of a dual-band cell phone antenna for near-field WPT. , 2015, , .		14

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55	Energy-autonomous Bi-directional Wireless Power Transmission (WPT) and energy harvesting circuit. , 2015, , .		14
56	The GRETA architecture for energy efficient radio identification and localization. , 2015, , .		14
57	The Role of Accurate Dynamic Analysis for Evaluating Time-Modulated Arrays Performance. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2663-2666.	2.4	14
58	State-of-the-art of contactless energy transfer (CET) systems: design rules and applications. Wireless Power Transfer, 2014, 1, 10-20.	0.9	13
59	Exploitation of passive RFID technology for wireless read-out of temperature sensors. , 2014, , .		13
60	Complex reactive event processing for assisted living: The Habitat project case study. Expert Systems With Applications, 2019, 126, 200-217.	4.4	13
61	A 2.4 GHz-868 MHz dual-band wake-up radio for wireless sensor network and IoT. , 2015, , .		12
62	Geometry optimization of sliding inductive links for position-independent wireless power transfer. , 2016, , .		12
63	An Ultra-Low Power Ultra-Wide Bandwidth Positioning System. IEEE Journal of Radio Frequency Identification, 2020, 4, 353-364.	1.5	12
64	Ranging On-Demand Microwave Power Transfer in Real-Time. IEEE Microwave and Wireless Components Letters, 2021, 31, 791-793.	2.0	11
65	Exploitation of Time Modulated Arrays for multisine power transmission. , 2018, , .		10
66	Far-Field-Based Nonlinear Optimization of Millimeter-Wave Active Antenna for 5G Services. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2985-2997.	2.9	10
67	Harmonic-Balance Algorithms for the Circuit-Level Nonlinear Analysis of UWB Receivers in the Presence of Interfering Signals. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 516-527.	1.9	9
68	Wirelessly powering: An enabling technology for zero-power sensors, IoT and D2D communication. , 2015, , .		9
69	A dual-band wake-up radio for ultra-low power Wireless Sensor Networks. , 2016, , .		9
70	A system for dynamic inductive power supply of electric vehicles on the road. , 2016, , .		9
71	Constant capacitive wireless power transfer at variable coupling. , 2018, , .		9
72	Optimal Terminations for a Single-Input Multiple-Output Resonant Inductive WPT Link. Energies, 2020, 13, 5157.	1.6	9

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73	RF Energy Harvesting from GFSK-Modulated BLE Signals. , 2021, , .		9
74	RF Systems Design for Simultaneous Wireless Information and Power Transfer (SWIPT) in Automation and Transportation. IEEE Journal of Microwaves, 2021, 1, 164-175.	4.9	9
75	Wireless Power Transfer in the Radiative Near-field Through Resonant Bessel-Beam Launchers at Millimeter Waves. , 2021, , .		9
76	Automatic generation of the solution path of a parametrized nonlinear circuit in the presence of turning points. Microwave and Optical Technology Letters, 1994, 7, 270-274.	0.9	8
77	Compact, Wearable Antennas for Battery-Less Systems Exploiting Fabrics and Magneto-Dielectric Materials. Electronics (Switzerland), 2014, 3, 474-490.	1.8	8
78	Seamless exploitation of cellâ€phone antennas for nearâ€field WPT by a frequencyâ€multiplexing approach. IET Microwaves, Antennas and Propagation, 2017, 11, 649-656.	0.7	8
79	A web of things approach for indoor position monitoring of elderly and impaired people. , 2017, , .		8
80	Design of a Miniaturized Omni-Directional RF-to-dc IR-WPT. , 2018, , .		8
81	Coupling-Independent Capacitive Wireless Power Transfer Using Frequency Bifurcation. Energies, 2018, 11, 1912.	1.6	8
82	Inclusive Design of Wearable Smart Objects for Older Users: Design Principles for Combining Technical Constraints and Human Factors. Advances in Intelligent Systems and Computing, 2019, , 324-334.	0.5	8
83	Numerical and experimental characterization of a button-shaped miniaturized UHF antenna on magneto-dielectric substrate. International Journal of Microwave and Wireless Technologies, 2013, 5, 231-239.	1.5	7
84	Performance investigation of space diversity for a 28/38 GHz MIMO antenna (applicable to mm-wave) Tj ETQqO 0 0 rgBT /Overlock 10 TF		7
85	An agile and accurate microwave system for tracking elderly people occupancy at home. , 2016, , .		7
86	Design of a position-independent end-to-end inductive WPT link for industrial dynamic systems. , 2017, , .		7
87	An Effective Procedure for Nonlinear Dynamic Optimization of Time-Modulated Arrays. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2204-2208.	2.4	7
88	Capacitive Wireless Power Transfer with Multiple Transmitters: Efficiency Optimization. Energies, 2020, 13, 3482.	1.6	7
89	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
90	Three-dimensional computation of the thermal parameters of multiple-gate power FETs. , 1993, , .		6

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91	An electrothermal functional model of the microwave FET suitable for nonlinear simulation. The International Executive, 1995, 5, 104-121.	0.2	6
92	Efficient Krylov-subspace simulation of autonomous RF/microwave circuits driven by digitally modulated carriers. IEEE Microwave and Wireless Components Letters, 2001, 11, 308-310.	2.0	6
93	Rigorous Investigation of Interactions between Passive RFID Tags by Means of Nonlinear/Electromagnetic Co-simulation. , 2006, , .		6
94	A CAD procedure for MIMO link estimation by the combination of nonlinear, electromagnetic and propagation analysis techniques. , 2008, , .		6
95	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
96	Large signal rectifier characterization for simultaneous data and Power Transfer. , 2016, , .		6
97	Human-centered design of a smart "wireless sensor network environment" enhanced with movement analysis system and indoor positioning qualifications. , 2017, , .		6
98	Codesign of Switching Sequence and Diode Parameters for Multiple Pattern Optimization in Time-Modulated Arrays. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1852-1856.	2.4	6
99	Maximum efficiency solution for capacitive wireless power transfer with $N$ receivers. Wireless Power Transfer, 2020, 7, 65-75.	0.9	6
100	A universal electrothermal FET model suitable for general large-signal applications. , 1996, , .		5
101	Computer-aided optimization of broadband nonlinear microwave integrated circuits with the aid of electromagnetically generated look-up tables. Microwave and Optical Technology Letters, 1997, 15, 189-196.	0.9	5
102	Highly Efficient Envelope-Oriented Analysis of Large Autonomous RF/Microwave Systems by a Trust-Region Algorithm Coupled with Krylov-Subspace Harmonic-Balance. , 2002, , .		5
103	Merging RFID, visual and gesture recognition technologies to generate and manage smart environments. , 2011, , .		5
104	A microwave sensor system based on reverse modelling of the array factor. , 2012, , .		5
105	Wireless resonant-type power transfer links with relay elements: Harmonic balance design. , 2012, , .		5
106	EM- and piezo-scavengers: Two useful solutions in highly humanized scenarios toward a "greener world"; , 2012, , .		5
107	Theoretical and experimental characterization of moving wireless power transfer systems. , 2016, , .		5
108	Time-based RF showers for energy-aware power transmission. , 2017, , .		5

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109	Optimal Couplings for a Four-coils WPT Link. , 2018, , .		5
110	Uniform sliding system for Simultaneous WPT and Communication Data Transfer. , 2019, , .		5
111	Optimizing the Power Output for a Capacitive Wireless Power Transfer System with $N$ receivers. , 2019, , .		5
112	An Ultra-wideband Battery-less Positioning System for Space Applications. , 2019, , .		5
113	Multiple Input Multiple Output Resonant Inductive WPT Link: Optimal Terminations for Efficiency Maximization. Energies, 2021, 14, 2194.	1.6	5
114	An All-in-One Dual Band Blade Antenna for ADS-B and 5G Communications in UAV Assisted Wireless Networks. Sensors, 2021, 21, 5734.	2.1	5
115	Comparison between Hybrid- and TM-polarized Bessel-Beam Launchers for Wireless Power Transfer in the Radiative Near-field at Millimeter Waves. , 2022, , .		5
116	Optimization-oriented design of free-running and tunable microwave oscillators by fully nonlinear CAD techniques (invited article). The International Executive, 1997, 7, 52-74.	0.2	4
117	Coupled nonlinear/electromagnetic CAD of injection-locked self-oscillating microstrip antennas. International Journal of RF and Microwave Computer-Aided Engineering, 2003, 13, 398-414.	0.8	4
118	CAD Procedures for the Nonlinear/Electromagnetic co-Design of Integrated Microwave Transmitters. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	4
119	New broadband button-shaped antenna on innovative magneto-dielectric material for wearable applications. , 2012, , .		4
120	Far-field power transmission by exploiting time-modulation in linear arrays. , 2015, , .		4
121	Low-cost UHF near-field power transmission for RFID applications. , 2017, , .		4
122	Rectenna Array with RF-Uncoupled Closely-spaced Monopoles for Autonomous Localization. , 2018, , .		4
123	Experimental Study of a Self-Oscillating Antenna at 5.8 GHz for Breath Monitoring. , 2019, , .		4
124	Efficient two-dimensional interpolation scheme suitable for nonlinear microwave device modelling. Electronics Letters, 1995, 31, 1674-1675.	0.5	4
125	Respiratory Activity Monitoring by a Wearable 5.8 GHz SILO With Energy Harvesting Capabilities. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 246-252.	2.3	4
126	Focusing RF-on demand by Logarithmic Frequency-Diverse Arrays. , 2020, , .		4



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127	Modern perspectives in supercomputer-aided microwave circuit design. The International Executive, 1991, 1, 201-224.	0.2	3
128	Efficient numerical optimisation of nonlinear microwave circuits by the harmonic-balance technique coupled with electromagnetic simulation. , 1996, , .		3
129	Detection of closely-spaced objects by a low-cost reader at 2.45 GHz. , 2012, , .		3
130	Detection and movement estimation of items by a smart microwave hand-held reader. , 2014, , .		3
131	Smart Wireless Power Transfer Operated by Time-Modulated Arrays via a Two-Step Procedure. International Journal of Antennas and Propagation, 2015, 2015, 1-11.	0.7	3
132	Wireless sensing and power transfer in a rotary tool. , 2015, , .		3
133	Enhanced wireless power transfer procedure via real-time beaming. , 2016, , .		3
134	The basic cell operating regimes for wireless Power Transfer of Electric Vehicles. , 2016, , .		3
135	Space mapping design method for an antenna transducer of a bend sensor RFID tag. , 2017, , .		3
136	Matched resonant inductive WPT using the coupling-independent regime: Theory and experiments. , 2017, , .		3
137	Simulated Effects of Specific Absorption Rate and Thermal Variations on Keratinocytes and Epidermis Exposed to Radio-Frequency. , 2018, , .		3
138	Exploitation of Multi-sine Intermodulation for Passive Backscattering UWB Localization. , 2018, , .		3
139	Design of a RF-to-dc Link for in-body IR-WPT with a Capsule-shaped Rotation-insensitive Receiver. , 2018, , .		3
140	A Smart Cable Offering Selective and Distributed Antenna Radiation Using RF Switches and Non-Conventional Hybrid Couplers. IEEE Transactions on Antennas and Propagation, 2018, 66, 6346-6351.	3.1	3
141	UCD, Ergonomics and Inclusive Design: The HABITAT Project. Advances in Intelligent Systems and Computing, 2019, , 1191-1202.	0.5	3
142	Gain Expressions for Capacitive Wireless Power Transfer with One Electric Field Repeater. Electronics (Switzerland), 2021, 10, 723.	1.8	3
143	Conformal Design of a High-Performance Antenna for Energy-Autonomous UWB Communication. Sensors, 2021, 21, 5939.	2.1	3
144	Toward an Energy-Autonomous Wearable System for Human Breath Detection. , 2020, , .		3

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145	A Modular System of Rectifiers for Energy Harvesting with Wide Dynamic Input-Range. , 2021, , .		3
146	An Energy-Autonomous SWIPT RFID Tag for Communication in the 2.4 GHz ISM Band. , 2022, , .		3
147	Computer-aided analysis of near-carrier noise in RF-microwave frequency converters. International Journal of RF and Microwave Computer-Aided Engineering, 1999, 9, 449-467.	0.8	2
148	Distortion Analysis of RF Links by Means of Circuit-Level Nonlinear/EM Front-end Simulation and Realistic Channel Description. , 2006, , .		2
149	Circuit-level nonlinear/EM co-simulation and co-design of UWB receivers. , 2011, , .		2
150	Design and test of a smart-space interaction device combining RFID and electromagnetic interferometry. , 2011, , .		2
151	Numerical analysis of an innovative energy-harvesting system in the infrared region. , 2013, , .		2
152	A theoretical and numerical approach for selecting miniaturized antenna topologies on magneto-dielectric substrates. , 2014, , .		2
153	Exploitation of graphene as HIS and RIS for devices in the MW and THz frequency ranges. , 2014, , .		2
154	Image impedances of magnetic resonant wireless power transfer links. , 2014, , .		2
155	Energy scavenging and storage for RFID systems. , 0, , 38-75.		2
156	A theoretical and numerical approach for selecting miniaturized antenna topologies on magneto-dielectric substrates. International Journal of Microwave and Wireless Technologies, 2015, 7, 369-377.	1.5	2
157	Design of matched wireless power transfer links realized with coupled inductors. , 2015, , .		2
158	Dynamic wireless power transfer by time-modulated arrays. , 2015, , .		2
159	A multilayer compact-size UWB-UHF antenna system for novel RFID applications. , 2015, , .		2
160	The importance of nonlinear/electromagnetic co-simulation on time-modulated array synthesis. , 2016, , .		2
161	A novel hybrid 4-D array architecture for intentional wireless power transmission. , 2016, , .		2
162	Non-radiative Wireless Power Transmission: Theory and Applications. , 2016, , 3-30.		2

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163	Experimental analysis of power optimized waveforms for enhancing wake-up radio sensitivity. , 2016, , .		2
164	Maximum wireless power transfer for multiple transmitters and receivers. , 2016, , .		2
165	Smart cable for Radio Frequency Identification in aeronautical applications. , 2016, , .		2
166	Millimeter Wave Agile Transmitter for IoT Operations. , 2018, , .		2
167	Criticality mitigation in a quasi-constant coupling position independent resonant IPT network. International Journal of Microwave and Wireless Technologies, 2018, 10, 911-920.	1.5	2
168	Anchorless Indoor Localization and Tracking in Real-Time at 2.45 GHz. , 2019, , .		2
169	Engineered and miniaturized 13.56 MHz omni-directional WPT system for medical applications. , 2019, , .		2
170	Wearable RFID Tag on Denim Substrate for Indoor Localization Applications. , 2019, , .		2
171	Analysis of Capacitive Wireless Power Transfer SIMO Systems based on the Duality Principle. , 2021, , .		2
172	Power maximization for a multipleâ€“input and multiple-output wireless power transfer system described by the admittance matrix. , 2020, , .		2
173	Dual Frequency MIMO Rectenna with Two-Branch Rectifier and Common Power Storage Unit. , 2022, , .		2
174	HIS Design for an Environment-Robust UHF/UWB Antenna with 3D-Printed Inclusions. , 2022, , .		2
175	On the design of multifunctional microwave (sub)systems for signal and noise performance. Microwave and Optical Technology Letters, 1995, 9, 44-49.	0.9	1
176	Electrothermal analysis of nonlinear microwave circuits containing thermally coupled active devices. , 1995, , .		1
177	A Novel Substitution Algorithm for the Efficient Analysis and Optimisation of Microwave Oscillators. , 1997, , .		1
178	Simulation of Autonomous Nonlinear Microwave Circuits by Krylov-Subspace Methods. , 1999, , .		1
179	Efficient combination of nonlinear and electromagnetic CAD techniques for the design of microwave transmitters including integrated antennas. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 260-269.	0.8	1
180	Coupled numerical and field-theoretical computation of the effects of circuit-package interactions on the linear and nonlinear performance of active MMIC's. , 2009, , .		1

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181	Design of wearable rectennas harvesting from multi-tone ambient RF sources. , 2011, , .		1
182	Design of RF energy harvesting platforms for power management unit with start-up circuits. Journal of Physics: Conference Series, 2013, 476, 012043.	0.3	1
183	Nonlinear/electromagnetic approach for time-modulated array simulation. , 2014, , .		1
184	Exploitation of capacitive coupling at UHF for remote sensing in a kW WPT system. , 2015, , .		1
185	Power maximization in a WPT link using three transmitters and a single receiver. , 2016, , .		1
186	A 150-W IR WPT Embedded System at 6.78-MHz for the Supply and Control of Linear Motors. , 2018, , .		1
187	PSO-Driven Synthesis of Realistic Time Modulated Arrays with Optimal Instantaneous Directivity through a System-By-Design Implementation. , 2018, , .		1
188	Optimal Terminating Impadances for Maximizing the Gains of a Four-Coil WPT Link. , 2018, , .		1
189	Could the space probe Philae be energized remotely?. Wireless Power Transfer, 2019, 6, 154-160.	0.9	1
190	A wearable passive microwave fluid sensor wirelessly activated. , 2019, , .		1
191	Load-Independent Inductive Resonant WPT Links. , 2019, , .		1
192	Highly-Reconfigurable Time-based Radiating Systems and Their Optimization. , 2020, , .		1
193	Optimization of a 27 MHz Wireless Power Transmitter for Unknown Receiver. , 2020, , .		1
194	Recent Developments of RFID and WPT Technologies for Biomedical and Industrial Applications at the University of Bologna. , 2021, , .		1
195	Beam-Steering Features of Radio-over-Fiber Systems via Antenna Array Time Modulation. , 2020, , .		1
196	General Procedure to Optimize a MIMO Capacitive Wireless Power Transfer System. , 2021, , .		1
197	Accurate Ranging Exploiting a 32-patch Frequency Diverse Array with Circular Symmetry. , 2022, , .		1
198	3-D Etching Techniques for Low-Cost Wearable Microwave Devices in Grounded Coplanar Waveguide. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
199	Nonlinear design of multiple-cavity switchable dielectric-resonator oscillators. Electronics Letters, 1993, 29, 2048.	0.5	0
200	Transient Analysis of Microwave Oscillators by Krylov-Subspace Harmonic Balance. , 2000, , .		0
201	Efficient Circuit-Level Nonlinear Analysis of Interference in UWB Receivers. , 2008, , .		0
202	Efficient Circuit-Level Nonlinear Analysis of Interference in UWB Receivers. , 2008, , .		0
203	Nonlinear/electromagnetic co-design of MIMO and UWB radio links. , 2011, , .		0
204	Graphene-based nano-rectenna in the far infrared frequency band. , 2014, , .		0
205	An efficient and realistic simulation platform suitable for the analysis and design of time-modulated arrays. , 2014, , .		0
206	Circuit-level wireless systems design at microwave frequencies. , 2014, , .		0
207	State-of-the-art Harmonic-Balance techniques for the accurate design of time-modulated arrays driven by time-varying phasors. , 2014, , .		0
208	Infrared nano-rectennas exploiting on-demand laser sources. , 2014, , .		0
209	Design considerations for frequency scanning transmit antennas in wireless power transmission applications. , 2015, , .		0
210	Resonant inductive WPT link operating in a coupling-independent regime. , 2017, , .		0
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