Alessandra Costanzo

List of Publications by Year
in descending order

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220 papers	2,945 citations	218592 26 h-index	233338 45 g-index
222 all docs	222 docs citations	222 times ranked	2441 citing authors

#	Article	IF	Citations
1	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
2	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
3	Accurate Ranging Exploiting a 32-patch Frequency Diverse Array with Circular Symmetry. , 2022, , .		1
4	Dual Frequency MIMO Rectenna with Two-Branch Rectifier and Common Power Storage Unit. , 2022, , .		2
5	Comparison between Hybrid- and TM-polarized Bessel-Beam Launchers for Wireless Power Transfer in the Radiative Near-field at Millimeter Waves. , 2022, , .		5
6	HIS Design for an Environment-Robust UHF/UWB Antenna with 3D-Printed Inclusions. , 2022, , .		2
7	Wireless Power Transfer Procedure via Hybrid Frequency Diversity. , 2022, , .		0
8	3-D Etching Techniques for Low-Cost Wearable Microwave Devices in Grounded Coplanar Waveguide. , 2022, , .		1
9	RF/microwave energy-autonomous systems. , 2022, , .		0
10	An Energy-Autonomous SWIPT RFID Tag for Communication in the 2.4 GHz ISM Band. , 2022, , .		3
11	RF Energy Harvesting from GFSK-Modulated BLE Signals. , 2021, , .		9
12	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
13	RF-Powered Low-Energy Sensor Nodes for Predictive Maintenance in Electromagnetically Harsh Industrial Environments. Sensors, 2021, 21, 386.	2.1	19
14	Gain Expressions for Capacitive Wireless Power Transfer with One Electric Field Repeater. Electronics (Switzerland), 2021, 10, 723.	1.8	3
15	Multiple Input Multiple Output Resonant Inductive WPT Link: Optimal Terminations for Efficiency Maximization. Energies, 2021, 14, 2194.	1.6	5
16	Wireless Power Transfer in the Radiative Near-field Through Resonant Bessel-Beam Launchers at Millimeter Waves. , 2021, , .		9
17	Ranging On-Demand Microwave Power Transfer in Real-Time. IEEE Microwave and Wireless Components Letters, 2021, 31, 791-793.	2.0	11
18	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

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19	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
20	Conformal Design of a High-Performance Antenna for Energy-Autonomous UWB Communication. Sensors, 2021, 21, 5939.	2.1	3
21	Phase Shift Impact on the performance of Time Modulated Antenna Arrays driven by Radio over Fiber. Journal of Lightwave Technology, 2021, , 1-1.	2.7	0
22	Analysis of Capacitive Wireless Power Transfer SIMO Systems based on the Duality Principle. , 2021, , .		2
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	Recent Developments of RFID and WPT Technologies for Biomedical and Industrial Applications at the University of Bologna. , 2021, , .		1
25	A Modular System of Rectifiers for Energy Harvesting with Wide Dynamic Input-Range. , 2021, , .		3
26	General Procedure to Optimize a MIMO Capacitive Wireless Power Transfer System. , 2021, , .		1
27	Multiple Inputs Inductive WPT: Efficiency Analysis by Using a Generalized Eigenvalue Approach. , 2021, , .		0
28	Highly-Reconfigurable Time-based Radiating Systems and Their Optimization. , 2020, , .		1
29	Capacitive Wireless Power Transfer with Multiple Transmitters: Efficiency Optimization. Energies, 2020, 13, 3482.	1.6	7
30	An Ultra-Low Power Ultra-Wide Bandwidth Positioning System. IEEE Journal of Radio Frequency Identification, 2020, 4, 353-364.	1.5	12
31	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
32	Optimal Terminations for a Single-Input Multiple-Output Resonant Inductive WPT Link. Energies, 2020, 13, 5157.	1.6	9
33	Genetic-based optimization of a multi insulator tunneling diode for THz energy harvesting. Wireless Power Transfer, 2020, 7, 60-64.	0.9	0
34	Maximum efficiency solution for capacitive wireless power transfer with N receivers. Wireless Power Transfer, 2020, 7, 65-75.	0.9	6
35	Optimization of a 27 MHz Wireless Power Transmitter for Unknown Receiver. , 2020, , .		1
36	Power maximization for a multipleâ€“input and multiple-output wireless power transfer system described by the admittance matrix. , 2020, , .		2

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37	Toward an Energy-Autonomous Wearable System for Human Breath Detection. , 2020, , .		3
38	Focusing RF-on demand by Logarithmic Frequency-Diverse Arrays. , 2020, , .		4
39	Beam-Steering Features of Radio-over-Fiber Systems via Antenna Array Time Modulation. , 2020, , .		1
40	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
41	Experimental Study of a Self-Oscillating Antenna at 5.8 GHz for Breath Monitoring. , 2019, , .		4
42	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
43	An Effective Procedure for Nonlinear Dynamic Optimization of Time-Modulated Arrays. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2204-2208.	2.4	7
44	Uniform sliding system for Simultaneous WPT and Communication Data Transfer. , 2019, , .		5
45	Anchorless Indoor Localization and Tracking in Real-Time at 2.45 GHz. , 2019, , .		2
46	Could the space probe PhilaeÂ© be energized remotely?. Wireless Power Transfer, 2019, 6, 154-160.	0.9	1
47	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
48	HABITAT: An IoT Solution for Independent Elderly. Sensors, 2019, 19, 1258.	2.1	74
49	Complex reactive event processing for assisted living: The Habitat project case study. Expert Systems With Applications, 2019, 126, 200-217.	4.4	13
50	Optimizing the Power Output for a Capacitive Wireless Power Transfer System with N receivers. , 2019, , .		5
51	A wearable passive microwave fluid sensor wirelessly activated. , 2019, , .		1
52	Efficient Simulation Method for Wireless Power Transfer. , 2019, , .		0
53	An Ultra-wideband Battery-less Positioning System for Space Applications. , 2019, , .		5
54	Load-Independent Inductive Resonant WPT Links. , 2019, , .		1

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55	Engineered and miniaturized 13.56 MHz omni-directional WPT system for medical applications. , 2019, , .		2
56	Long Range Battery-Less UHF-RFID Platform for Sensor Applications. , 2019, , .		16
57	Wearable RFID Tag on Denim Substrate for Indoor Localization Applications. , 2019, , .		2
58	UCD, Ergonomics and Inclusive Design: The HABITAT Project. Advances in Intelligent Systems and Computing, 2019, , 1191-1202.	0.5	3
59	EMC and EMI issues of WPT systems for wearable and implantable devices. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 67-77.	0.1	22
60	A 150-W IR WPT Embedded System at 6.78-MHz for the Supply and Control of Linear Motors. , 2018, , .		1
61	PSO-Driven Synthesis of Realistic Time Modulated Arrays with Optimal Instantaneous Directivity through a System-By-Design Implementation. , 2018, , .		1
62	Design of a Miniaturized Omni-Directional RF-to-dc IR-WPT. , 2018, , .		8
63	Exploitation of Time Modulated Arrays for multisine power transmission. , 2018, , .		10
64	Millimeter Wave Agile Transmitter for IoT Operations. , 2018, , .		2
65	Optimal Couplings for a Four-coils WPT Link. , 2018, , .		5
66	Wearable Tag at 2.45 GHz for Continuous Tracking of Patients Activities in Indoor Environments. , 2018, , .		0
67	Simulated Effects of Specific Absorption Rate and Thermal Variations on Keratinocytes and Epidermis Exposed to Radio-Frequency. , 2018, , .		3
68	High-Accuracy Localization of Passive Tags With Multisine Excitations. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5894-5908.	2.9	21
69	Rectenna Array with RF-Uncoupled Closely-spaced Monopoles for Autonomous Localization. , 2018, , .		4
70	Optimal Terminating Impadances for Maximizing the Gains of a Four-Coil WPT Link. , 2018, , .		1
71	Coupling-Independent Capacitive Wireless Power Transfer Using Frequency Bifurcation. Energies, 2018, 11, 1912.	1.6	8
72	Exploitation of Multi-sine Intermodulation for Passive Backscattering UWB Localization. , 2018, , .		3

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73	Design of a RF-to-dc Link for in-body IR-WPT with a Capsule-shaped Rotation-insensitive Receiver. , 2018, , .		3
74	Constant capacitive wireless power transfer at variable coupling. , 2018, , .		9
75	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
76	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
77	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
78	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
79	Resonant inductive WPT link operating in a coupling-independent regime. , 2017, , .		0
80	A portable RFID reader augmented with tracking capabilities for indoor monitoring of people. , 2017, , .		0
81	Seamless exploitation of cellâ€phone antennas for nearâ€field WPT by a frequencyâ€diplexing approach. IET Microwaves, Antennas and Propagation, 2017, 11, 649-656.	0.7	8
82	Time-based RF showers for energy-aware power transmission. , 2017, , .		5
83	Energizing 5G: Near- and Far-Field Wireless Energy and Data Trantransfer as an Enabling Technology for the 5G IoT. IEEE Microwave Magazine, 2017, 18, 125-136.	0.7	100
84	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
85	Design of a position-independent end-to-end inductive WPT link for industrial dynamic systems. , 2017, , .		7
86	ANNâ€based design of a versatile millimetreâ€wave slotted patch multiâ€antenna configuration for 5G scenarios. IET Microwaves, Antennas and Propagation, 2017, 11, 1288-1295.	0.7	29
87	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
88	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
89	Quasi-isotropic RF energy harvester for autonomous long distance IoT operations. , 2017, , .		18
90	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

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91	A web of things approach for indoor position monitoring of elderly and impaired people. , 2017, , .		8
92	Human-centered design of a smart â€œwireless sensor network environmentâ€•enhanced with movement analysis system and indoor positioning qualifications. , 2017, , .		6
93	Energy Autonomous UWB Localization. IEEE Journal of Radio Frequency Identification, 2017, 1, 228-244.	1.5	30
94	Space mapping design method for an antenna transducer of a bend sensor RFID tag. , 2017, , .		3
95	Matched resonant inductive WPT using the coupling-independent regime: Theory and experiments. , 2017, , .		3
96	Low-cost UHF near-field power transmission for RFID applications. , 2017, , .		4
97	A Long-Distance RF-Powered Sensor Node with Adaptive Power Management for IoT Applications. Sensors, 2017, 17, 1732.	2.1	29
98	THz Rectennas and Their Design Rules. Electronics (Switzerland), 2017, 6, 99.	1.8	20
99	Enhanced wireless power transfer procedure via real-time beaming. , 2016, , .		3
100	Performance investigation of space diversity for a 28/38 GHz MIMO antenna (applicable to mm-wave) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		7
101	An agile and accurate microwave system for tracking elderly people occupancy at home. , 2016, , .		7
102	The importance of nonlinear/electromagnetic co-simulation on time-modulated array synthesis. , 2016, , .		2
103	Optimum Excitations for a Dual-Band Microwatt Wake-Up Radio. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4731-4739.	2.9	22
104	A novel hybrid 4-D array architecture for intentional wireless power transmission. , 2016, , .		2
105	Power maximization in a WPT link using three transmitters and a single receiver. , 2016, , .		1
106	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
107	A dual-band wake-up radio for ultra-low power Wireless Sensor Networks. , 2016, , .		9
108	Optimal design of a wireless power transfer link using parallel and series resonators. Wireless Power Transfer, 2016, 3, 105-116.	0.9	18

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109	Rigorous design of matched wireless power transfer links based on inductive coupling. Radio Science, 2016, 51, 858-867.	0.8	21
110	Geometry optimization of sliding inductive links for position-independent wireless power transfer. , 2016, , .		12
111	Non-radiative Wireless Power Transmission: Theory and Applications. , 2016, , 3-30.		2
112	Experimental analysis of power optimized waveforms for enhancing wake-up radio sensitivity. , 2016, , .		2
113	Maximum wireless power transfer for multiple transmitters and receivers. , 2016, , .		2
114	The basic cell operating regimes for wireless Power Transfer of Electric Vehicles. , 2016, , .		3
115	Large signal rectifier characterization for simultaneous data and Power Transfer. , 2016, , .		6
116	Theoretical and experimental characterization of moving wireless power transfer systems. , 2016, , .		5
117	A system for dynamic inductive power supply of electric vehicles on the road. , 2016, , .		9
118	A single feed dual-band circularly polarized millimeter-wave antenna for 5G communication. , 2016, , .		71
119	Smart cable for Radio Frequency Identification in aeronautical applications. , 2016, , .		2
120	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
121	Coupling-Independent Wireless Power Transfer. IEEE Microwave and Wireless Components Letters, 2016, 26, 222-224.	2.0	41
122	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
123	Far-field power transmission by exploiting time-modulation in linear arrays. , 2015, , .		4
124	Exploitation of capacitive coupling at UHF for remote sensing in a kW WPT system. , 2015, , .		1
125	Design of matched wireless power transfer links realized with coupled inductors. , 2015, , .		2
126	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

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127	Dynamic wireless power transfer by time-modulated arrays. , 2015, , .		2
128	A 2.45-GHz Energy-Autonomous Wireless Power Relay Node. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4511-4520.	2.9	20
129	A 2.4 GHz-868 MHz dual-band wake-up radio for wireless sensor network and IoT. , 2015, , .		12
130	A multilayer compact-size UWB-UHF antenna system for novel RFID applications. , 2015, , .		2
131	Design considerations for frequency scanning transmit antennas in wireless power transmission applications. , 2015, , .		0
132	Exploitation of a dual-band cell phone antenna for near-field WPT. , 2015, , .		14
133	A Novel Integrated UWBâ€“UHF One-Port Antenna for Localization and Energy Harvesting. IEEE Transactions on Antennas and Propagation, 2015, 63, 3839-3848.	3.1	50
134	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
135	Energy-autonomous Bi-directional Wireless Power Transmission (WPT) and energy harvesting circuit. , 2015, , .		14
136	Wireless sensing and power transfer in a rotary tool. , 2015, , .		3
137	Wirelessly powering: An enabling technology for zero-power sensors, IoT and D2D communication. , 2015, , .		9
138	The GRETA architecture for energy efficient radio identification and localization. , 2015, , .		14
139	Energy-Harvesting Fabric Antenna. , 2015, , 459-485.		0
140	Energy-Harvesting Fabric Antenna. , 2015, , 1-22.		0
141	Compact, Wearable Antennas for Battery-Less Systems Exploiting Fabrics and Magneto-Dielectric Materials. Electronics (Switzerland), 2014, 3, 474-490.	1.8	8
142	A theoretical and numerical approach for selecting miniaturized antenna topologies on magneto-dielectric substrates. , 2014, , .		2
143	State-of-the-art of contactless energy transfer (CET) systems: design rules and applications. Wireless Power Transfer, 2014, 1, 10-20.	0.9	13
144	Graphene-based nano-rectenna in the far infrared frequency band. , 2014, , .		0

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145	Exploitation of graphene as HIS and RIS for devices in the MW and THz frequency ranges. , 2014, , .		2
146	Rigorous design of magnetic-resonant wireless power transfer links realized with two coils. , 2014, , .		14
147	An efficient and realistic simulation platform suitable for the analysis and design of time-modulated arrays. , 2014, , .		0
148	Circuit-level wireless systems design at microwave frequencies. , 2014, , .		0
149	State-of-the-art Harmonic-Balance techniques for the accurate design of time-modulated arrays driven by time-varying phasors. , 2014, , .		0
150	Towards a terahertz direct receiver based on graphene up to 10 THz. Journal of Applied Physics, 2014, 115, .	1.1	28
151	Detection and movement estimation of items by a smart microwave hand-held reader. , 2014, , .		3
152	Infrared nano-rectennas exploiting on-demand laser sources. , 2014, , .		0
153	Rigorous network modeling of magnetic-resonant wireless power transfer. Wireless Power Transfer, 2014, 1, 27-34.	0.9	17
154	Wireless Power Transmission: R&D Activities Within Europe. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1031-1045.	2.9	138
155	Nonlinear/electromagnetic approach for time-modulated array simulation. , 2014, , .		1
156	Exploitation of passive RFID technology for wireless read-out of temperature sensors. , 2014, , .		13
157	Electromagnetic Energy Harvesting and Wireless Power Transmission: A Unified Approach. Proceedings of the IEEE, 2014, 102, 1692-1711.	16.4	177
158	Image impedances of magnetic resonant wireless power transfer links. , 2014, , .		2
159	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
160	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
161	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
162	Tag, You're It: Ranging and Finding via RFID Technology. IEEE Microwave Magazine, 2013, 14, 36-46.	0.7	51

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163	Graphene as a high impedance surface for ultra-wideband electromagnetic waves. Journal of Applied Physics, 2013, 114, .	1.1	24
164	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
165	Numerical analysis of an innovative energy-harvesting system in the infrared region. , 2013, , .		2
166	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
167	Geneticâ€based design of a tetraâ€band highâ€efficiency radioâ€frequency energy harvesting system. IET Microwaves, Antennas and Propagation, 2013, 7, 1254-1263.	0.7	97
168	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
169	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
170	A microwave sensor system based on reverse modelling of the array factor. , 2012, , .		5
171	Wireless resonant-type power transfer links with relay elements: Harmonic balance design. , 2012, , .		5
172	New broadband button-shaped antenna on innovative magneto-dielectric material for wearable applications. , 2012, , .		4
173	EM- and piezo-scavengers: Two useful solutions in highly humanized scenarios toward a "greener world". , 2012, , .		5
174	Detection of closely-spaced objects by a low-cost reader at 2.45 GHz. , 2012, , .		3
175	Exploitation of a novel magneto-dielectric substrate for miniaturization of wearable UHF antennas. Materials Letters, 2012, 87, 127-130.	1.3	16
176	Harmonic balance design of wireless resonant-type power transfer links. , 2012, , .		19
177	RF/baseband co-design of switching receivers for multiband microwave energy harvesting. Sensors and Actuators A: Physical, 2012, 179, 158-168.	2.0	58
178	Nonlinear/electromagnetic co-design of MIMO and UWB radio links. , 2011, , .		0
179	Merging RFID, visual and gesture recognition technologies to generate and manage smart environments. , 2011, , .		5
180	Circuit-level nonlinear/EM co-simulation and co-design of UWB receivers. , 2011, , .		2

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181	Design of wearable rectennas harvesting from multi-tone ambient RF sources. , 2011, , .		1
182	Design and test of a smart-space interaction device combining RFID and electromagnetic interferometry. , 2011, , .		2
183	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
184	Co-design of ultra-low power RF/Microwave receivers and converters for RFID and energy harvesting applications. , 2010, , .		19
185	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
186	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
187	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
188	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
189	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
190	A CAD procedure for MIMO link estimation by the combination of nonlinear, electromagnetic and propagation analysis techniques. , 2008, , .		6
191	Efficient Circuit-Level Nonlinear Analysis of Interference in UWB Receivers. , 2008, , .		0
192	Efficient Circuit-Level Nonlinear Analysis of Interference in UWB Receivers. , 2008, , .		0
193	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
194	Rigorous Investigation of Interactions between Passive RFID Tags by Means of Nonlinear/Electromagnetic Co-simulation. , 2006, , .		6
195	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
196	Distortion Analysis of RF Links by Means of Circuit-Level Nonlinear/EM Front-end Simulation and Realistic Channel Description. , 2006, , .		2
197	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
198	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

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199	Highly Efficient Envelope-Oriented Analysis of Large Autonomous RF/Microwave Systems by a Trust-Region Algorithm Coupled with Krylov-Subspace Harmonic-Balance. , 2002, , .		5
200	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
201	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
202	Transient Analysis of Microwave Oscillators by Krylov-Subspace Harmonic Balance. , 2000, , .		0
203	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
204	Simulation of Autonomous Nonlinear Microwave Circuits by Krylov-Subspace Methods. , 1999, , .		1
205	A Novel Substitution Algorithm for the Efficient Analysis and Optimisation of Microwave Oscillators. , 1997, , .		1
206	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
207	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
208	Efficient numerical optimisation of nonlinear microwave circuits by the harmonic-balance technique coupled with electromagnetic simulation. , 1996, , .		3
209	A universal electrothermal FET model suitable for general large-signal applications. , 1996, , .		5
210	An electrothermal functional model of the microwave FET suitable for nonlinear simulation. The International Executive, 1995, 5, 104-121.	0.2	6
211	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
212	Electrothermal analysis of nonlinear microwave circuits containing thermally coupled active devices. , 1995, , .		1
213	Efficient two-dimensional interpolation scheme suitable for nonlinear microwave device modelling. Electronics Letters, 1995, 31, 1674-1675.	0.5	4
214	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
215	Three-dimensional computation of the thermal parameters of multiple-gate power FETs. , 1993, , .		6
216	Nonlinear design of multiple-cavity switchable dielectric-resonator oscillators. Electronics Letters, 1993, 29, 2048.	0.5	0

#	Article	IF	Citations
217	Harmonic-balance analysis of microwave oscillators with automatic suppression of degenerate solution. Electronics Letters, 1992, 28, 256.	0.5	23
218	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
219	Modern perspectives in supercomputerâ€aided microwave circuit design. The International Executive, 1991, 1, 201-224.	0.2	3
220	Energy scavenging and storage for RFID systems. , 0, , 38-75.		2