

Nuno Borges De Carvalho

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5937809/publications.pdf>

Version: 2024-02-01

348
papers

4,385
citations

147726

31
h-index

175177

52
g-index

363
all docs

363
docs citations

363
times ranked

2998
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Excitation Signal Statistics in the Selection of the Optimum Load for Future Wideband Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 827-835.	2.9	0
2	Reconfigurable Three Functional Dimension Single and Dual-Band SDR Front-Ends Using Thin Film BST-Based Varactors. IEEE Access, 2022, 10, 4125-4136.	2.6	2
3	A Convex Optimization Approach for the Design of Supergain Electrically Small Antenna and Rectenna Arrays Comprising Parasitic Reactively Loaded Elements. IEEE Transactions on Antennas and Propagation, 2022, 70, 4674-4682.	3.1	8
4	Design and Characterization of Novel Barium Strontium Titanate Thick Films for Sub-6 GHz RF Applications. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 611-621.	2.9	7
5	From Macro to Micro: Impact of Smart Turbine Energy Harvesters (STEH), on Environmental Sustainability and Smart City Automation. Sustainability, 2022, 14, 1887.	1.6	6
6	A 5-W GaN Doherty Amplifier for <i>Ka</i> -Band Satellite Downlink With 4-GHz Bandwidth and 17-dB NPR. IEEE Microwave and Wireless Components Letters, 2022, 32, 964-967.	2.0	18
7	Harvesting circuits for triboelectric nanogenerators for wearable applications. IScience, 2022, 25, 103977.	1.9	15
8	Two-Tone Signals Harmonic Conditions for PAPR Variation. , 2022, , .		1
9	Charging Mobile Devices in Indoor Environments. Energies, 2022, 15, 3450.	1.6	3
10	Harmonic RFID Temperature Sensor Design for Harsh Environments. IEEE Microwave and Wireless Components Letters, 2022, 32, 1239-1242.	2.0	5
11	Backscatter Communications. IEEE Journal of Microwaves, 2021, 1, 864-878.	4.9	12
12	Detection, Classification and Location of Sources of Partial Discharges Using the Radiometric Method: Trends, Challenges and Open Issues. IEEE Access, 2021, 9, 110787-110810.	2.6	15
13	RF-dc Converter Optimization using MIMO Antennas and OTA Multi-Sine Calibration Method. , 2021, , .		1
14	Millimeter-Wave BiCMOS Backscatter Modulator for 5 G-IoT Applications. IEEE Microwave and Wireless Components Letters, 2021, 31, 173-176.	2.0	9
15	All-Digital RFID Readers: An RFID Reader Implemented on an FPGA Chip and/or Embedded Processor. IEEE Microwave Magazine, 2021, 22, 18-24.	0.7	3
16	An OOK Chirp Spread Spectrum Backscatter Communication System for Wireless Power Transfer Applications. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1838-1845.	2.9	12
17	Energy Harvesting Mechanisms in a Smart City – A Review. Smart Cities, 2021, 4, 476-498.	5.5	36
18	A Survey on Over-The-Air Linearization Methods for MIMO Systems. Energies, 2021, 14, 2225.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Combining Wireless Backscatter and Power for Future IoSP. , 2021, , .		0
20	Millimeter-Wave Hybrid RF-DC Converter Based on a GaAs Chip for IoT-WPT Applications. IEEE Microwave and Wireless Components Letters, 2021, 31, 787-790.	2.0	10
21	3D Antenna Characterization for WPT Applications. Sensors, 2021, 21, 4461.	2.1	0
22	Focus Location Measurement of a Quasioptical Double Reflector System. , 2021, , .		7
23	Nonlinear Dynamic RF System Characterization: Envelope Intermodulation Distortion Profilesâ€™ A Noise Power Ratio-Based Approach. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4256-4271.	2.9	16
24	Over-the-Air Calibration of Active Antenna Arrays Using Multisine. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 431-442.	2.9	6
25	Implementation Challenges and Opportunities in Beyond-5G and 6G Communication. IEEE Journal of Microwaves, 2021, 1, 86-100.	4.9	85
26	PAPR Deviation Impact in the Wideband Power Amplifier Characterization with Realistic Modulated Load-pull System. , 2021, , .		3
27	Characterization of the Frequency Dependent Match for Optimal Performance of Wideband Power Amplifiers. , 2021, , .		3
28	Real- Time System using MUSIC Algorithm With Multi-Sine. , 2021, , .		0
29	An All-Digital Ambient Backscatter solution powered by Energy Harvesting. , 2021, , .		1
30	Mixed-Signal SoC Characterization for Future 5G DPD Applications [Application Notes]. IEEE Microwave Magazine, 2020, 21, 14-23.	0.7	0
31	Challenges in Resource-Constrained IoT Devices: Energy and Communication as Critical Success Factors for Future IoT Deployment. Sensors, 2020, 20, 6420.	2.1	41
32	3D Antenna Array for SWIPT Sensing with WPT Capabilities. , 2020, , .		3
33	Harmonic Suppression in Frequency Shifted Backscatter Communications. IEEE Open Journal of the Communications Society, 2020, 1, 990-999.	4.4	9
34	RnProbe: A LoRa-Enabled IoT Edge Device for Integrated Radon Risk Management. IEEE Access, 2020, 8, 203488-203502.	2.6	19
35	IEEE Radio and Wireless Week 2020 [Conference Report]. IEEE Microwave Magazine, 2020, 21, 114-118.	0.7	0
36	When Backscatter Communication Meets Vehicular Networks: Boosting Crosswalk Awareness. IEEE Access, 2020, 8, 34507-34521.	2.6	14

#	ARTICLE	IF	CITATIONS
37	Low-Profile Aperture-Coupled Patch Antenna Array for CubeSat Applications. IEEE Access, 2020, 8, 20473-20479.	2.6	15
38	Swept Notch NPR for Linearity Assessment of Systems Presenting Long-Term Memory Effects. , 2020, , .		4
39	LTE Signal Detector for LSA Spectrum Sharing Model in Portugal. IEEE Transactions on Vehicular Technology, 2020, 69, 15127-15136.	3.9	5
40	Enabling Multicarrier Backscattering Communications. , 2020, , .		5
41	All Digital Ambient Backscatter System. , 2020, , .		7
42	A Hybrid System combining SWIPT and Backscatter Techniques. , 2020, , .		1
43	IEEE Radio and Wireless Week 2019 [Conference Report]. IEEE Microwave Magazine, 2019, 20, 103-105.	0.7	0
44	Electromagnetic Field Probe for Microwave Ovens. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3330-3338.	2.9	1
45	IQ Impedance Modulator Front-End for Low-Power LoRa Backscattering Devices. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5307-5314.	2.9	22
46	Chirp Based Backscatter Modulation. , 2019, , .		6
47	Could the space probe Philae be energized remotely?. Wireless Power Transfer, 2019, 6, 154-160.	0.9	1
48	A Selective, Tracking, and Power Adaptive Far-Field Wireless Power Transfer System. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3856-3866.	2.9	66
49	Design of Compact LoRa Devices for Smart Building Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 142-153.	0.2	13
50	IEEE Access Special Section Editorial: Wirelessly Powered Networks: Algorithms, Applications, and Technologies. IEEE Access, 2019, 7, 18994-19001.	2.6	3
51	Chipless Backscatter for Vital E-Health Sensing. , 2019, , .		1
52	Co-Channel Radiation Pattern Distortion in Transmitting 5G Antenna Arrays due to 3rd Order Intermodulation Products. , 2019, , .		1
53	Backscatter Solutions for SWIPT Systems. , 2019, , .		3
54	Design of a Cost-Effective Multimodal IoT Edge Device for Building Occupancy Estimation. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
55	Guest Editorial: Introduction to the Special Issue on EMC for Wireless Power Transfer and Power Electronics. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1902-1903.	1.4	0
56	Quasi Millimeter-Wave 3-Stage Power Amplifier with Tunable Integrated Antenna for Space Applications. , 2019, , .		0
57	Results of the Demonstration of Licensed Shared Access with Sensing of Secondary Signal. , 2019, , .		1
58	Performance evaluation of backscatter modulation techniques by using one and two frequencies. , 2019, , .		1
59	Welcome to IEEE Radio & Wireless Week 2020 [IEEE Radio & Wireless Week 2020]. IEEE Microwave Magazine, 2019, 20, 16-19.	0.7	0
60	Characterisation and implementation of high-order backscatter modulation for IoT applications. IET Microwaves, Antennas and Propagation, 2019, 13, 2636-2640.	0.7	5
61	Backscatter Modulation for Wearable Devices: A Backscatter Modulator, Consisting of an Antenna and a 1-MHz Binary Backscatter Modulator Operating at a Carrier Frequency of 915 MHz. IEEE Microwave Magazine, 2019, 20, 78-84.	0.7	1
62	Measurements for Future Wireless Communications [From the Guest Editors' Desk]. IEEE Microwave Magazine, 2018, 19, 23-23.	0.7	0
63	Bandwidth Analysis of RF-DC Converters Under Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 791-802.	2.9	36
64	High order modulation backscatter systems characterization. , 2018, , .		1
65	Quasi-optical analysis of a double reflector microwave antenna system. Wireless Power Transfer, 2018, 5, 75-86.	0.9	18
66	IoT/WPT Developments in Space Exploration. , 2018, , .		3
67	Microwave Oven Field Detector Probe. , 2018, , .		2
68	Comparison of active and passive sensors for IoT applications. , 2018, , .		4
69	Swept-frequency square-wave generation for phase-reference in mixer-based instruments. , 2018, , .		2
70	Mobile World Congress 2018 [Around the Globe]. IEEE Microwave Magazine, 2018, 19, 120-121.	0.7	0
71	Small Size Antennas Mountable on Metallic Gas Cylinders. , 2018, , .		0
72	Four-PAM Modulation of Ambient FM Backscattering for Spectrally Efficient Low-Power Applications. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5909-5921.	2.9	32

#	ARTICLE	IF	CITATIONS
73	RWW 2019 Technical Program Chair's Greeting [IEEE Radio & Wireless Week 2019]. IEEE Microwave Magazine, 2018, 19, 22-23.	0.7	0
74	Massive MIMO Antenna Transmitting Characterization. , 2018, , .		3
75	Design of Narrow Band Single-Layer Chipless RFID Tag. , 2018, , .		1
76	Mutual Coupling Reduction Using Grounded Copper Vertical Plane Structure. , 2018, , .		0
77	OFDM-like High Order Backscatter Modulation. , 2018, , .		8
78	Dual-band printed circular monopole for Wi-Fi. , 2018, , .		1
79	Spectrally Efficient 4-PAM Ambient FM Backscattering for Wireless Sensing and RFID Applications. , 2018, , .		8
80	Dual-Band High Order Modulation Ambient Backscatter. , 2018, , .		11
81	A Low Complexity and Accurate Battery-Less Trackable Device. , 2018, , .		4
82	2018 IEEE Fellows Elevation and Recognition. IEEE Microwave Magazine, 2018, 19, 16-28.	0.7	0
83	Impact of Phase Calibration on EVM Measurement Quality. , 2018, , .		1
84	Smart Hardware for Smart Objects: Microwave Electronic Circuits to Make Objects Smart. IEEE Microwave Magazine, 2018, 19, 48-68.	0.7	26
85	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
86	Coexistence Without Interference: Interference Mitigation on DVB-T Reception Caused by Neutral Systems Operating in the Digital Dividend Band. IEEE Microwave Magazine, 2018, 19, 29-43.	0.7	5
87	Optimized DPD Feedback Loop for m-MIMO sub-6GHz Systems. , 2018, , .		5
88	Active Antenna Array Characterization for Massive MIMO 5G Scenarios. , 2018, , .		5
89	Quadrature Amplitude Backscatter Modulator for Passive Wireless Sensors in IoT Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1103-1110.	2.9	71
90	The Design of a High-Performance Multisine RFID Reader. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3389-3400.	2.9	18

#	ARTICLE	IF	CITATIONS
91	Agile All-Digital DPD Feedback Loop. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2476-2484.	2.9	7
92	Agile All-Digital RF Transceiver Implemented in FPGA. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4229-4240.	2.9	15
93	3D antenna for wireless power transmission: Aperture coupled microstrip antenna with dielectric lens. , 2017, , .		5
94	Small antenna design for very compact devices and wearables. IET Microwaves, Antennas and Propagation, 2017, 11, 874-879.	0.7	11
95	Wireless energy transfer: Dielectric lens antennas for beam shaping in wireless power-transfer applications. Comptes Rendus Physique, 2017, 18, 78-85.	0.3	7
96	GaN MMIC active arrays with space power combination. , 2017, , .		0
97	Ultrafast Backscatter Modulator With Low-Power Consumption and Wireless Power Transmission Capabilities. IEEE Microwave and Wireless Components Letters, 2017, 27, 1152-1154.	2.0	25
98	Far field WPT " Main challenges. , 2017, , .		3
99	3D printed lens antenna for wireless power transfer at Ku-band. , 2017, , .		1
100	A flexible physical layer and fronthaul research testbed for C-RAN. Microprocessors and Microsystems, 2017, 52, 480-490.	1.8	1
101	Enabling a constant and efficient flow of wireless energy for IoT sensors. , 2017, , .		6
102	Towards circulator-free multi antenna transmitters for 5G. , 2017, , .		8
103	Single transistor passive backscatter sensor. , 2017, , .		2
104	Over the air characterization for 5G massive MIMO array transmitters. , 2017, , .		5
105	Antenna design for ultra-compact Bluetooth devices. , 2017, , .		2
106	12.6 GHz off-set fed multilayer reflectarray. , 2017, , .		1
107	Design of UAV and ground station antennas for communications link budget improvement. , 2017, , .		4
108	Mixed-signal SoC characterization for power amplifier DPD feedback loop compensation. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
109	Passive Sensors for Long Duration Internet of Things Networks. Sensors, 2017, 17, 2268.	2.1	9
110	HEMT based RF to DC converter efficiency enhancement using special designed waveforms. , 2017, , .		4
111	RF-to-DC and backscatter load modulator characterization. , 2016, , .		1
112	Comparison of timebase interpolation methods for traceable, wideband mm-wave communication signals. , 2016, , .		4
113	Design of high order modulation backscatter wireless sensor for passive IoT solutions. , 2016, , .		20
114	All-digital transceivers â€” Recent advances and trends. , 2016, , .		3
115	High-efficiency D-TV energy harvesting system for low-input power. Wireless Power Transfer, 2016, 3, 34-42.	0.9	4
116	A Broadband Almost-Digital RF Transmitter With an Efficient Power Amplifier. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1526-1534.	2.9	12
117	Livestock low power monitoring system. , 2016, , .		4
118	RF Subsampling Feedback Loop Technique for Concurrent Dual-Band PA Linearization. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4174-4182.	2.9	10
119	Continuously Power Delivering for Passive Backscatter Wireless Sensor Networks. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3723-3731.	2.9	48
120	Mixed-signal characterization approaches for emerging wireless technologies. , 2016, , .		0
121	Perfect Isolation: Dealing with Self-Jamming in Passive RFID Systems. IEEE Microwave Magazine, 2016, 17, 20-39.	0.7	33
122	MMIC GaN power amplifier with bidirectional operation for RF-to-DC conversion. , 2016, , .		2
123	All-digital flexible uplink remote radio head for C-RAN. , 2016, , .		4
124	Measurement of sensitivity improvement in RFID tags. , 2016, , .		6
125	Optical radio convergence infrastructure for communications and power delivering (ORCIP). , 2016, , .		0
126	Workshops Planned for RWW 2017. IEEE Microwave Magazine, 2016, 17, 18-21.	0.7	0

#	ARTICLE	IF	CITATIONS
127	Beam steering antenna and network design for WPT applications. , 2016, , .		2
128	WPT related applications enabling Internet of Things evolution. , 2016, , .		5
129	A software-defined radio RFID reader design with improved wireless power transfer capabilities. , 2016, , .		3
130	Increasing wireless powered systems efficiency by combining WPT and Electromagnetic Energy Harvesting. , 2016, , .		10
131	Guest editorial for special issue. Wireless Power Transfer, 2015, 2, 1-2.	0.9	1
132	Performance improvement of rectifiers for WPT exploiting thermal energy harvesting. Wireless Power Transfer, 2015, 2, 22-31.	0.9	18
133	A Flexible Research Testbed for C-RAN. , 2015, , .		7
134	Live demonstration: Mixed-signal network analysis characterization and modeling platform. , 2015, , .		0
135	Boosting the Efficiency: Unconventional Waveform Design for Efficient Wireless Power Transfer. IEEE Microwave Magazine, 2015, 16, 87-96.	0.7	124
136	Dual-frequency antennas embedded into the floor for efficient RF "energy evaporation", 2015, , .		0
137	Exploiting radar waveforms for wireless power transmission. , 2015, , .		1
138	Improving DPD performance by compensating feedback loop impairments in RF ADCs. , 2015, , .		4
139	Assessment on the wireless power transfer figures of merit and transmitter architectures. , 2015, , .		1
140	High performance microwave point-to-point link for 5G backhaul with flexible spectrum aggregation. , 2015, , .		5
141	Parasitic stacked slot patch antenna for DTT energy harvesting. , 2015, , .		4
142	Towards a denser frequency grid in phase measurements using mixer-based receivers. , 2015, , .		11
143	Surf board electronic device. , 2015, , .		0
144	Workshops Planned for RWW 2016 [RWW 2016]. IEEE Microwave Magazine, 2015, 16, 34-84.	0.7	0

#	ARTICLE	IF	CITATIONS
145	Amplitude and frequency analysis of multi-sine wireless power transfer. , 2015, , .		14
146	<math display="block">\text{Notation}=\text{TeX}\text{Parameters: A Novel Framework for Characterization and Behavioral Modeling of Mixed-Signal Systems. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3277-3287.}	2.9	11
147	Design and implementation of a 3D printed discone antenna for TV broadcasting system. , 2015, , .		2
148	Design of an efficient D-TV energy harvesting system for low-power applications. , 2015, , .		3
149	Constructive combination of resonant magnetic coupling and resonant electrical coupling. , 2015, , .		3
150	A methodology to measure innovation in European Union through the national innovation system. International Journal of Innovation and Regional Development, 2015, 6, 159.	0.1	26
151	Transparent antenna applied for RF harvesting applications. , 2015, , .		0
152	Wireless Sensor Tag and Network for Improved Clinical Triage. , 2015, , .		7
153	Investigation on self-jamming suppression in passive RFID when using multisines to enhance wireless power transfer. , 2015, , .		6
154	Review of the present technologies concurrently contributing to the implementation of the Internet of Things (IoT) paradigm: RFID, Green Electronics, WPT and Energy Harvesting. , 2015, , .		38
155	Improving dynamic range of softwareâ€defined radio receivers for multiâ€carrier wireless systems. IET Microwaves, Antennas and Propagation, 2015, 9, 16-23.	0.7	1
156	Backscatter wireless sensor network with WPT capabilities. , 2015, , .		16
157	Evaluation of simultaneous wireless power transfer and backscattering data communication through multisine signals. , 2015, , .		7
158	Backscatter radio coverage enhancements using improved WPT signal waveform. , 2015, , .		3
159	An Agile and Wideband All-Digital SDR Receiver for 5G Wireless Communications. , 2015, , .		13
160	“Energy evaporation”: The new concept of indoor systems for WPT and EH embedded into the floor. , 2015, , .		4
161	Lowâ€power ultraâ€wide band pulse generator based on a PIN diode. IET Microwaves, Antennas and Propagation, 2015, 9, 1230-1232.	0.7	2
162	Harmonic spaced multisines for efficient wireless power transmission. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
163	Resonant Electrical Coupling: Circuit Model and First Experimental Results. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2983-2990.	2.9	16
164	RFID-Based Wireless Passive Sensors Utilizing Cork Materials. IEEE Sensors Journal, 2015, 15, 7242-7251.	2.4	25
165	FPGA-based all-digital software defined radio system demonstration. , 2015, , .		3
166	FPGA-based all-digital Software Defined Radio receiver. , 2015, , .		3
167	Accurate smartphone indoor positioning using a WSN infrastructure and non-invasive audio for TDoA estimation. Pervasive and Mobile Computing, 2015, 20, 29-46.	2.1	43
168	Synchronous Oversampled Measurements for the Extraction of Mixed-Signal Behavioral Models in Digital to Analog Integrated Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3183-3192.	2.9	5
169	Design and optimization of an antenna with Thermo-Electric Generator (TEG) for autonomous wireless nodes. , 2014, , .		9
170	Automatic characterization of RF DACs for software defined radio applications. , 2014, , .		7
171	UHF RFID tag antenna for bottle labeling. , 2014, , .		3
172	Experimental Characterization of Wearable Antennas and Circuits for RF Energy Harvesting in WBANs. , 2014, , .		5
173	Wireless power transmission based on resonant electrical coupling. , 2014, , .		4
174	Large-signal characterization of a mixed-signal SoC receiver for multiband SDR/CR designs. , 2014, , .		0
175	Large-signal characterization of a mixed-signal SoC receiver for multiband SDR/CR designs. , 2014, , .		0
176	Passive UHF RFID enabled temperature sensor tag on cork substrate. , 2014, , .		7
177	Workshops Planned for RWW2015. IEEE Microwave Magazine, 2014, 15, S11-S12.	0.7	0
178	RFID Tags on Paper Substrate for Bottle Labelling. Procedia Technology, 2014, 17, 65-72.	1.1	7
179	Analysis on in-band distortion caused by switching amplifiers. IET Microwaves, Antennas and Propagation, 2014, 8, 351-357.	0.7	5
180	Mixed-signal and mixed-domain instrumentation for emerging technology device characterization. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
181	Passive sensors embedded into logistic chains. , 2014, , .		0
182	Passive sensors for food quality monitoring and counterfeiting. , 2014, , .		1
183	The Sky's the Limit: Key Technology and Market Trends in Satellite Communications. IEEE Microwave Magazine, 2014, 15, 65-78.	0.7	41
184	Wireless Power Transmission: R&D Activities Within Europe. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1031-1045.	2.9	138
185	Intermodulation in active reconfigurable antennas. , 2014, , .		6
186	Electromagnetic energy harvesting-global information database. Transactions on Emerging Telecommunications Technologies, 2014, 25, 56-63.	2.6	15
187	Design and evaluation of multi-band RF energy harvesting circuits and antennas for WSNs. , 2014, , .		12
188	Smart Surfaces: Large Area Electronics Systems for Internet of Things Enabled by Energy Harvesting. Proceedings of the IEEE, 2014, 102, 1723-1746.	16.4	78
189	A comprehensive analysis of the clipping effects on signals with different statistical patterns. , 2014, , .		0
190	An Agile Digital Radio System for UHF White Spaces. IEEE Microwave Magazine, 2014, 15, 92-97.	0.7	7
191	Measurement setup for linear characterization of a mixed-signal SoC wideband receiver. , 2014, , .		10
192	Dual-band lowpass/bandpass periodic-type microstrip filter with Long-Term-Evolution (LTE) service mitigation. , 2014, , .		2
193	RFID tags on cork stoppers for bottle identification. , 2014, , .		6
194	Behavior of resonant electrical coupling in terms of range and relative orientation. , 2014, , .		5
195	Filling the Spectral Holes: Novel/Future Wireless Communications and Radar Receiver Architectures. IEEE Microwave Magazine, 2014, 15, 45-56.	0.7	23
196	Smart environment technology as a possible enabler of smart cities. , 2014, , .		3
197	RF-DC converter efficiency optimization using source-pull techniques. , 2014, , .		3
198	RFID passive tag antenna for cork bottle stopper. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
199	Spatial Power Combining of Multi-Sine Signals for Wireless Power Transmission Applications. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1022-1030.	2.9	47
200	Opportunistic Usage of Maritime VHF Bandâ€”Deployment Challenges for a New Regulatory Framework. Wireless Engineering and Technology, 2014, 05, 1-10.	0.6	0
201	A Batteryless RFID Remote Control System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2727-2736.	2.9	19
202	Increasing the RFID readability range using wireless power transmission enhancements. , 2013, , .		1
203	Papoulis-Gerchberg Hybrid Filter Bank receiver for cognitive-/Software-Defined Radio systems. , 2013, , .		4
204	Feasibility of a battery-less wirelessly-powered RFID remote control system. , 2013, , .		0
205	Synchronization and syntonization of wireless sensor networks. , 2013, , .		3
206	Novel fine tunable multichannel all-digital transmitter. , 2013, , .		6
207	Smart floor: Indoor navigation based on RFID. , 2013, , .		11
208	Planar omnidirectional microstrip antenna array for 5 GHz ISM and UNII band. , 2013, , .		3
209	Design and Optimization of Flexible and Coding Efficient All-Digital RF Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 625-632.	2.9	42
210	Modeling and Simulation of a Reflective Semiconductor Optical Amplifier Modulator Using X-Parameters. IEEE Photonics Technology Letters, 2013, 25, 272-274.	1.3	4
211	Spectrum opportunities for electromagnetic energy harvesting from 350 mhz to 3 ghz. , 2013, , .		19
212	Extending Reading Range of Commercial RFID Readers. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 633-640.	2.9	40
213	Bio-Inspired Hybrid Filter Bank for Software-Defined Radio Receivers. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1455-1466.	2.9	27
214	Optimum behavior: Wireless power transmission system design through behavioral models and efficient synthesis techniques. IEEE Microwave Magazine, 2013, 14, 26-35.	0.7	111
215	Real time front-end for cognitive radio inspired by the human cochlea. , 2013, , .		1
216	Designing Harmonic-Controlled Drivers for Switching Power Amplifiers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 247-251.	2.2	2

#	ARTICLE	IF	CITATIONS
217	A Low-Power Wakeup Radio for Application in WSN-Based Indoor Location Systems. International Journal of Wireless Information Networks, 2013, 20, 67-73.	1.8	22
218	Spatially-combined multisine transmitter for wireless power transmission. , 2013, , .		5
219	Antennas and circuits for ambient RF energy harvesting in wireless body area networks. , 2013, , .		38
220	Wideband dynamic behavioral modeling of reflective semiconductor optical amplifiers using a tapped-delay multilayer perceptron. Optics Express, 2013, 21, 3354.	1.7	1
221	Diode power detector X-parameters model extraction using LSNA-based measurement system. Electronics Letters, 2013, 49, 196-198.	0.5	2
222	Synchronous frequency domain measurements for the extraction of X-parameters in digital to analog transmitters. , 2013, , .		8
223	Textile antenna for electromagnetic energy harvesting for GSM900 and DCS1800 bands. , 2013, , .		8
224	Omnidirectional printed loop antenna for taxi communications. , 2013, , .		2
225	Metamaterial inspired compact printed antenna for WLAN applications. , 2013, , .		1
226	Under-sampled measurement technique for Hybrid-Filter-Bank characterization in real-time applications. , 2013, , .		2
227	Oversampled Hybrid Filter Banks for High-Dynamic-Range Cognitive-Radio/Software-Defined-Radio Receivers. , 2013, , .		0
228	Workshops Planned for RWW2014. IEEE Microwave Magazine, 2013, 14, 160-161.	0.7	0
229	Guest Editorial Advanced Circuits and Systems for CR/SDR Applications. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2013, 3, 485-488.	2.7	18
230	Wireless Power Transmission: The Last Cut of Wires... [From the Guest Editors' Desk]. IEEE Microwave Magazine, 2013, 14, 22-24.	0.7	7
231	Indoor guidance system for the blind and the visually impaired. IET Microwaves, Antennas and Propagation, 2012, 6, 1149.	0.7	6
232	Evaluation of pulse modulators for all-digital agile transmitters. , 2012, , .		11
233	A proposal for dynamic power control in RFID and Passive Sensor Systems based on RSSI. , 2012, , .		3
234	RF and IF channelizers for wide-band sensing in cognitive/Software-Defined-Radio receivers. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
235	Energy Aware Systems - The Next Green Frontier [From the Guest Editor's Desk]. IEEE Microwave Magazine, 2012, 13, S3-S4.	0.7	0
236	Evaluation of an FPGA-based Reconfigurable SoC for All-Digital Flexible RF Transmitters. , 2012, , .		5
237	A measurement strategy for test and characterization of UHF RFID systems. , 2012, , .		2
238	Electromagnetic geo-referenced footprints for energy harvesting systems. , 2012, , .		4
239	A Novel All-Digital Multichannel Multimode RF Transmitter Using Delta-Sigma Modulation. IEEE Microwave and Wireless Components Letters, 2012, 22, 156-158.	2.0	23
240	Mixed-domain receiver architecture for white space software-defined radio scenarios. , 2012, , .		7
241	A dynamically reconfigurable architecture enabling all-digital transmission for cognitive radios. , 2012, , .		6
242	Pentagonal Patch-Excited Sectorized Antenna for Localization Systems. IEEE Transactions on Antennas and Propagation, 2012, 60, 1634-1638.	3.1	19
243	Enhanced front-end to extend reading range of commercial RFID readers using efficient multisine signals. , 2012, , .		11
244	Compact, Frequency Reconfigurable, Printed Monopole Antenna. International Journal of Antennas and Propagation, 2012, 2012, 1-6.	0.7	23
245	A Review of Antennas for Indoor Positioning Systems. International Journal of Antennas and Propagation, 2012, 2012, 1-14.	0.7	61
246	Corrected mixed-domain measurements for software defined radios. , 2012, , .		3
247	Analysis on dynamic characteristics of reflective semiconductor optical amplifier based on a memory polynomial model. Microwave and Optical Technology Letters, 2012, 54, 805-808.	0.9	0
248	Evaluation of second-order bandpass sampling receivers for software defined radio. , 2012, , .		1
249	Maximizing DC power in energy harvesting circuits using multisine excitation. , 2011, , .		118
250	Increasing the range of wireless passive sensor nodes using multisines. , 2011, , .		12
251	Enhanced architecture to increase the dynamic range of SDR receivers. , 2011, , .		4
252	Diode Power Probe Measurements of Wireless Signals. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 987-997.	2.9	15

#	ARTICLE	IF	CITATIONS
253	Design of a battery-free wireless sensor node. , 2011, , .		6
254	Transmission of four channels SCM over fiber and nonlinear compensation for RSOA external modulators. , 2011, , .		0
255	RFID technology applied to students' backpacks. , 2011, , .		0
256	Wideband Behavioral Model for Nonlinear Operation of Bandpass Sampling Receivers. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1006-1015.	2.9	13
257	Digital predistortion for RSOAs as external modulators in radio over fiber systems. Optics Express, 2011, 19, 17641.	1.7	13
258	Crest factor reduction through scaling and recovering by frame in OFDM communication systems. , 2011, , .		0
259	White spaces communications in Europe. , 2011, , .		2
260	Localization system improvement using a special designed sectorised antenna. , 2011, , .		2
261	Indoor/outdoor management system compliant with Google Maps and Android® OS. , 2011, , .		1
262	Using X-parameters to model diode-based RF power probes. , 2011, , .		4
263	Designing and Testing Software-Defined Radios. IEEE Microwave Magazine, 2010, 11, 83-94.	0.7	58
264	Power amplifier linearisation behaviour in the presence of dynamic effects. IET Microwaves, Antennas and Propagation, 2010, 4, 113.	0.7	1
265	Modeling band-pass sampling receivers nonlinear behavior in different Nyquist zones. , 2010, , .		3
266	The impact of long-term memory effects on diode power probes. , 2010, , .		1
267	Transient nonlinear figures of merit for wireless communications. , 2010, , .		0
268	GaN RF oscillator used in space applications. , 2010, , .		3
269	Analog Filter Bank for Cochlear Radio. , 2010, , .		10
270	Cross-polarization interference cancelation (XPIC) performance in presence of non-linear effects. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
271	Architecture for dynamic range extension of analogue-to-digital conversion. , 2010, , .		3
272	Low power location protocol based on ZigBee Wireless Sensor Networks. , 2010, , .		14
273	Characterization of SNDR degradation in nonlinear wireless transmitters. International Journal of RF and Microwave Computer-Aided Engineering, 2009, 19, 470-480.	0.8	4
274	Multisine signals for wireless system test and design [Application Notes]. IEEE Microwave Magazine, 2008, 9, 122-138.	0.7	62
275	Mixed analog-digital instrumentation for software-defined-radio characterization. , 2008, , .		13
276	Interference cancellation: New configuration technique for cancellation of strong interferences from adjacent frequency bands.. , 2008, , .		2
277	Evaluation of Nonlinear distortion in ADCs using multisines. , 2008, , .		13
278	Co-location of different technologies in the same site. , 2008, , .		0
279	Modeling correlated and uncorrelated distortion in communication systems. , 2008, , .		0
280	Time-frequency characterization of long-term memory in nonlinear power amplifiers. , 2008, , .		2
281	PAPR Evaluation in Multi-Mode SDR Transceivers. , 2008, , .		7
282	Complex signal measurement bench based on a special spectrum super-resolution algorithm. , 2007, , .		0
283	The Impact of Long Term Memory Effects in Wireless QPSK Modulated Signals. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	4
284	Dynamic time-frequency waveforms for VSA characterization of PA long-term memory effects. , 2007, , .		2
285	A Homodyne Low Cost Uplink Receiver for Digital Short Range Communication Systems. IEEE Vehicular Technology Conference, 2007, , .	0.2	2
286	The use of intermodulation distortion for the design of passive RFID. , 2007, , .		2
287	The MTT-II Web Page: A Multitude of Information Resources on Microwave Measurements [Member Benefits]. IEEE Microwave Magazine, 2007, 8, 106-114.	0.7	0
288	Design of Cost-Optimised Active Receive Array Antenna for Mobile Satellite Terminals. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
289	EVM Estimation in RF/Wireless Components. , 2007, , .		7
290	Co-channel and adjacent channel distortion in microwave amplifiers presenting memory. , 2007, , .		2
291	The use of intermodulation distortion for the design of passive RFID. , 2007, , .		13
292	Intermodulation Distortion of Third-Order Nonlinear Systems With Memory Under Multisine Excitations. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1264-1271.	2.9	22
293	Local Positioning System Based on Artificial Neural Networks. Lecture Notes in Computer Science, 2007, , 699-708.	1.0	0
294	A Metric for the Quantification of Memory Effects in Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4432-4439.	2.9	31
295	Nonlinear RF circuits and systems simulation when driven by several modulated signals. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 572-579.	2.9	26
296	Low cost transceiver for DSRC applications. , 2006, , .		1
297	Multi-sine Response of Third Order Nonlinear Systems with Memory Based on Two-tone Measurements. , 2006, , .		5
298	Nonlinear microwave system characterization based on Higher Order Statistics. , 2006, , .		0
299	A corrected microwave multisine waveform generator. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2659-2664.	2.9	7
300	A New Method for the Orthogonal Extraction of the Volterra Series Coefficients. , 2006, , .		1
301	Practical Higher Order Statistics Signal Characterization. , 2006, , .		2
302	Modeling nonlinear memory effects on the AM/AM, AM/PM and two-tone IMD in microwave PA circuits. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 13-23.	0.8	7
303	Envelope Time Trajectories of Multi-sine Signals. , 2006, , .		0
304	Bias Networks Impact on the Dynamic AM/AM Contours in Microwave Power Amplifiers. , 2006, , .		4
305	A Formal Procedure for Microwave Power Amplifier Behavioral Modeling. , 2006, , .		3
306	A Figure of Merit for the Evaluation of Long Term Memory Effects in RF Power Amplifiers. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
307	Designing multisine excitations for nonlinear model testing. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 45-54.	2.9	67
308	Nonlinear simulation of mixers for assessing system-level performance. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 350-361.	0.8	6
309	Load-impedance selection for maximized large-signal IMD sweet-spot effects. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 434-440.	0.8	4
310	High efficiency and high linearity power amplifier design. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 453-468.	0.8	10
311	Inferring nonlinear distortion performance of power amplifiers subject to telecommunications signals from two-tone measurements. , 2005, , .		4
312	Tracking Trains via Radio Frequency Systems. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 244-258.	4.7	26
313	Laboratory generation of multi-sines with pre-described statistics. , 2005, , .		3
314	Simulation of nonlinear RF circuits driven by multi-carrier modulated signals. , 2005, , .		5
315	Multitone phase and amplitude measurement for nonlinear device characterization. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1982-1989.	2.9	19
316	Evaluation of Signal-to-Noise and Distortion Ratio Degradation in Nonlinear Systems. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 813-822.	2.9	27
317	Nonlinear Device Model of Microwave Power GaN HEMTs for High Power-Amplifier Design. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2585-2592.	2.9	132
318	An integrated overview of CAD/CAE tools and their use on wireless-communication circuit design. International Journal of RF and Microwave Computer-Aided Engineering, 2004, 14, 507-524.	0.8	1
319	A Comprehensive Analysis of IMD Behavior in RF CMOS Power Amplifiers. IEEE Journal of Solid-State Circuits, 2004, 39, 24-34.	3.5	145
320	A comprehensive explanation of distortion sideband asymmetries. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2090-2101.	2.9	160
321	Prediction of IMD in LDMOS transistor amplifiers using a new large-signal model. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 2834-2842.	2.9	108
322	Characterizing nonlinear RF circuits for their in-band signal distortion. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 420-426.	2.4	14
323	Modeling MESFET's for Nonlinear Analog Circuits. Analog Integrated Circuits and Signal Processing, 2002, 33, 95-106.	0.9	0
324	Evaluating co-channel distortion ratio in microwave power amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1777-1784.	2.9	17

#	ARTICLE	IF	CITATIONS
325	A Novel Measurement Standard for Nonlinear In-Band Distortion Characterization. , 2001, , .		0
326	Nonlinear Modeling of RF/Microwave Circuits for Multi-Tone Signal Analysis. , 2001, , .		0
327	Time-varying Volterra-series analysis of spectral regrowth and noise power ratio in FET mixers. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 545-549.	2.9	10
328	Intermodulation Distortion Analysis of FET Mixers under Multitone Excitation. , 2000, , .		3
329	Nonlinear distortion model for VCO-PLL FM transmission systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1999, 46, 348-352.	2.3	5
330	Large- and small-signal IMD behavior of microwave power amplifiers. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 2364-2374.	2.9	153
331	Resistive FET mixer conversion loss and IMD optimization by selective drain bias. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 2382-2392.	2.9	27
332	On the use of multitone techniques for assessing RF components' intermodulation distortion. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 2393-2402.	2.9	126
333	Efficient Harmonic Balance Computation of Microwave Circuits' Response to Multi-Tone Spectra. , 1999, , .		6
334	Multitone frequency-domain simulation of nonlinear circuits in large- and small-signal regimes. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 2016-2024.	2.9	38
335	Characterizing the gate-to-source nonlinear capacitor role on GaAs FET IMD performance. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 2344-2355.	2.9	33
336	Accurate Nonlinear Resistive FET Modeling for IMD Calculations. , 1998, , .		3
337	Simulating Strong Nonlinear Microwave Circuits Driven By a Large Number of Input Tones. , 1997, , .		4
338	A New Volterra Series Based Orthogonal Behavioral Model for Power Amplifiers. , 0, , .		12
339	Dynamic AM-AM and AM-PM Behavior in Microwave PA Circuits. , 0, , .		6
340	Practical Multitone Amplitude and Phase Characterization. , 0, , .		0
341	Crest factor reduction techniques. , 0, , 309-330.		1
342	Instrumentation for wireless systems. , 0, , 63-132.		0

#	ARTICLE	IF	CITATIONS
343	Test benches for wireless system characterization and modeling. , 0 , 166-216.		0
344	Filtering stages for white space cognitive/software-defined radio receivers. , 0 , 143-166.		1
345	White space technology, the background. , 0 , 3-39.		0
346	White spaces exploration using FPGA-based all-digital transmitters. , 0 , 199-230.		0
347	Unconventional RFID systems. , 0 , 116-151.		0
348	Front-ends for software-defined radio. , 0 , 58-102.		0