Dominique M M -P Schreurs

List of Publications by Year
in descending order

284 papers	3,525 citations	136740 32 h-index	205818 48 g-index
300 all docs	300 docs citations	300 times ranked	2458 citing authors

#	Article	IF	Citations
1	Mutual Coupling Reduction Between Planar Antennas by Using a Simple Microstrip U-Section. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1501-1503.	2.4	173
2	Analysis of an Indoor Biomedical Radar-Based System for Health Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2061-2068.	2.9	147
3	Nonlinear Dispersive Modeling of Electron Devices Oriented to GaN Power Amplifier Design. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 710-718.	2.9	99
4	Revolutionizing Wearables for 5G: 5G Technologies: Recent Developments and Future Perspectives for Wearable Devices and Antennas. IEEE Microwave Magazine, 2017, 18, 108-124.	0.7	81
5	Embedded DSP-Based Telehealth Radar System for Remote In-Door Fall Detection. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 92-101.	3.9	78
6	A New Millimeter-Wave Small-Signal Modeling Approach for pHEMTs Accounting for the Output Conductance Time Delay. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 741-746.	2.9	70
7	Neural approach for temperatureâ€dependent modeling of GaN HEMTs. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 359-370.	1.2	67
8	A Double-Pulse Technique for the Dynamic I/V Characterization of GaN FETs. IEEE Microwave and Wireless Components Letters, 2014, 24, 132-134.	2.0	66
9	A smart wearable textile array system for biomedical telemetry applications. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2253-2261.	2.9	64
10	Multisine signals for wireless system test and design [Application Notes]. IEEE Microwave Magazine, 2008, 9, 122-138.	0.7	62
11	An Extensive Experimental Analysis of the Kink Effects in ${ S}_{22}$ and ${ h}_{21}$ for a GaN HEMT. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 513-520.	2.9	61
12	Temperature Influence on GaN HEMT Equivalent Circuit. IEEE Microwave and Wireless Components Letters, 2016, 26, 813-815.	2.0	61
13	Nanostructured materials with plasmonic nanobiosensors for early cancer detection: A past and future prospect. Biosensors and Bioelectronics, 2018, 100, 361-373.	5.3	54
14	Compact Behavioral Models of Nonlinear Active Devices Using Response Surface Methodology. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 56-64.	2.9	51
15	Specific Absorption Rate (SAR) Evaluation of Textile Antennas. IEEE Antennas and Propagation Magazine, 2015, 57, 229-240.	1.2	49
16	On the small signal modeling of advanced microwave FETs: A comparative study. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 417-425.	0.8	47
17	Scalable Nonlinear FET Model Based on a Distributed Parasitic Network Description. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 755-766.	2.9	47
18	A Planar One-Port Microwave Microfluidic Sensor for Microliter Liquids Characterization. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 10-17.	2.3	46

#	Article	IF	Citations
19	The large world of FET small-signal equivalent circuits (invited paper). International Journal of RF and Microwave Computer-Aided Engineering, 2016, 26, 749-762.	0.8	43
20	Measurement Uncertainty Propagation in Transistor Model Parameters via Polynomial Chaos Expansion. IEEE Microwave and Wireless Components Letters, 2017, 27, 572-574.	2.0	43
21	Investigation on the non-quasi-static effect implementation for millimeter-wave FET models. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 87-93.	0.8	42
22	Broadband Dielectric Spectroscopy of Cell Cultures. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5750-5759.	2.9	42
23	Integration of Interdigitated Electrodes in Split-Ring Resonator for Detecting Liquid Mixtures. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2080-2089.	2.9	42
24	3-D Printed Microfluidic Sensor in SIW Technology for Liquidsâ€™ Characterization. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1175-1184.	2.9	41
25	Empowering GaN HEMT models: The gateway for power amplifier design. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2125.	1.2	40
26	Effect of Surface Passivation on Two-Dimensional Electron Gas Carrier Density in AlGaN/GaN Structures. Japanese Journal of Applied Physics, 2006, 45, L224-L226.	0.8	39
27	Determination and Validation of New Nonlinear FinFET Model Based on Lookup Tables. IEEE Microwave and Wireless Components Letters, 2007, 17, 361-363.	2.0	39
28	Modulation Techniques for Simultaneous Wireless Information and Power Transfer With an Integrated Rectifierâ€“Receiver. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2373-2385.	2.9	38
29	Bandwidth Analysis of RF-DC Converters Under Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 791-802.	2.9	36
30	High-Frequency Extraction of the Extrinsic Capacitances for GaN HEMT Technology. IEEE Microwave and Wireless Components Letters, 2011, 21, 445-447.	2.0	35
31	Accurate GaN HEMT nonquasiâ€static largeâ€signal model including dispersive effects. Microwave and Optical Technology Letters, 2011, 53, 692-697.	0.9	33
32	Enhanced Biased ASK Modulation Performance for SWIPT With AWGN Channel and Dual-Purpose Hardware. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3478-3486.	2.9	32
33	Modeling of Coplanar Interdigital Capacitor for Microwave Microfluidic Application. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2674-2683.	2.9	32
34	Multitone FSK Modulation for SWIPT. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1665-1674.	2.9	32
35	GaN FET Nonlinear Modeling Based on Double Pulse <formula formulatype="inline"><tex Notation="TeX">${ I}/{ V}$</tex></formula> Characteristics. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3262-3273.	2.9	31
36	Technology-Independent Non-Quasi-Static Table-Based Nonlinear Model Generation. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2845-2852.	2.9	30

#	Article	IF	Citations
37	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
38	Millimeter-Wave FET Nonlinear Modelling Based on the Dynamic-Bias Measurement Technique. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2526-2537.	2.9	29
39	Hybrid Characterization of Nanolitre Dielectric Fluids in a Single Microfluidic Channel Up to 110 GHz. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5063-5073.	2.9	29
40	Evaluation of Uncertainty in Temporal Waveforms of Microwave Transistors. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2353-2363.	2.9	26
41	A system-level simulator for indoor mmW SAR imaging and its applications. Optics Express, 2012, 20, 23811.	1.7	24
42	A Survey on Vital Signs Detection Using Radar Techniques and Processing With FPGA Implementation. IEEE Circuits and Systems Magazine, 2021, 21, 41-74.	2.6	24
43	A 14â€“50-GHz Phase Shifter With All-Pass Networks for 5G Mobile Applications. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 762-774.	2.9	23
44	S-parameter measurement based quasistatic large-signal cold HEMT model for resistive mixer design. The International Executive, 1996, 6, 250-258.	0.2	21
45	Ageing is Not a Disease. , 2019, , .		21
46	Application of Radar to Remote Patient Monitoring and Eldercare. IET Radar, Sonar and Navigation, 2015, 9, 115-115.	0.9	19
47	A Modeling Procedure of the Broadband Dielectric Spectroscopy for Ionic Liquids. IEEE Transactions on Nanobioscience, 2018, 17, 387-393.	2.2	19
48	Waveforms-Only Based Nonlinear De-Embedding in Active Devices. IEEE Microwave and Wireless Components Letters, 2012, 22, 215-217.	2.0	18
49	Optimized SFCW radar sensor aiming at fall detection in a real room environment. , 2013, , .		18
50	Implementation of a Project-Based Telecommunications Engineering Design Course. IEEE Transactions on Education, 2014, 57, 25-33.	2.0	18
51	Dynamic-Bias S-Parameters: A New Measurement Technique for Microwave Transistors. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3946-3955.	2.9	18
52	Technology-Independent Analysis of the Double Current-Gain Peak in Millimeter-Wave FETs. IEEE Microwave and Wireless Components Letters, 2018, 28, 326-328.	2.0	18
53	Dual-Band Planar Bowtie Monopole for a Fall-Detection Radar and Telemetry System. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1698-1701.	2.4	17
54	Multibias neural modeling of fin fieldâ€effect transistor admittance parameters. Microwave and Optical Technology Letters, 2012, 54, 2082-2088.	0.9	17

#	Article	IF	Citations
55	Characterization of Intermodulation and Memory Effects Using Offset Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 645-657.	2.9	17
56	Measurement Bandwidth Extension Using Multisine Signals: Propagation of Error. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 458-467.	2.9	16
57	A clearâ€cut understanding of the currentâ€gain peak in HEMTs: Theory and experiments. Microwave and Optical Technology Letters, 2012, 54, 2801-2806.	0.9	16
58	Radar-Based Health Monitoring. , 2013, , .		16
59	Multitone Excitation Analysis in RF Energy Harvestersâ€"Considerations and Limitations. IEEE Internet of Things Journal, 2018, 5, 2804-2816.	5.5	16
60	Data-Efficient Bayesian Optimization with Constraints for Power Amplifier Design. , 2018, , .		16
61	Polarization Reconfigurable Air-Filled Substrate Integrated Waveguide Cavity-Backed Slot Antenna. IEEE Access, 2019, 7, 102628-102643.	2.6	16
62	Highly Sensitive Differential Microwave Sensor for Soil Moisture Measurement. IEEE Sensors Journal, 2021, 21, 27458-27464.	2.4	16
63	Sensitivity Analysis of Broadband On-Wafer Dielectric Spectroscopy of Yeast Cell Suspensions up to 110 GHz. IEEE Microwave and Wireless Components Letters, 2015, 25, 199-201.	2.0	15
64	Design of efficient rectifier for low-power wireless energy harvesting at 2.45 GHz. , 2015, , .		15
65	Charge-Controlled GaN FET Modeling by Displacement Current Integration From Frequency-Domain NVNA Measurements. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4382-4393.	2.9	15
66	A Three-Port Nonlinear Dynamic Behavioral Model for Supply-Modulated RF PAs. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 133-147.	2.9	15
67	Numerical modeling of two microwave sensors for biomedical applications. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, .	1.2	15
68	Use of multisine signals for efficient behavioural modelling of RF circuits with short-memory effects. , 0, , .		14
69	In-deep insight into the extrinsic capacitance impact on GaN HEMT modeling at millimeter-wave band. International Journal of RF and Microwave Computer-Aided Engineering, 2012, 22, 308-318.	0.8	14
70	Amplitude and frequency analysis of multi-sine wireless power transfer. , 2015, , .		14
71	Measurement-based analysis of the throughput-power level trade-off with modulated multisine signals in a SWIPT system. , 2017, , .		14
72	A Novel Doherty Transmitter Based on Antenna Active Load Modulation. IEEE Microwave and Wireless Components Letters, 2015, 25, 271-273.	2.0	13

#	Article	IF	Citations
73	A New Dynamic-Bias Measurement Setup for Nonlinear Transistor Model Identification. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 218-228.	2.9	13
74	Effects of Gate-Length Scaling on Microwave MOSFET Performance. Electronics (Switzerland), 2017, 6, 62.	1.8	13
75	Scalability of Multifinger HEMT Performance. IEEE Microwave and Wireless Components Letters, 2020, 30, 869-872.	2.0	13
76	Large-signal modelling and measuring go hand-in-hand: Accurate alternatives to indirect S-parameter methods (invited paper). International Journal of RF and Microwave Computer-Aided Engineering, 2000, 10, 6-18.	0.8	12
77	S-functions extracted from narrow-band modulated large-signal network analyzer measurements. , 2009, , .		12
78	Small-Versus Large-Signal Extraction of Charge Models of Microwave FETs. IEEE Microwave and Wireless Components Letters, 2014, 24, 394-396.	2.0	12
79	SWIPT with biased ASK modulation and dual-purpose hardware. , 2017, , .		12
80	Assessing GaN FET Performance Degradation in Power Amplifiers for Pulsed Radar Systems. IEEE Microwave and Wireless Components Letters, 2018, 28, 1035-1037.	2.0	12
81	Detailed analysis of parasitic loading effects on power performance of GaN-on-silicon HEMTs. Solid-State Electronics, 2009, 53, 185-189.	0.8	11
82	LIMITATIONS OF APPROXIMATIONS TOWARDS FOURIER OPTICS FOR INDOOR ACTIVE MILLIMETER WAVE IMAGING SYSTEMS. Progress in Electromagnetics Research, 2010, 109, 245-262.	1.6	11
83	Large-Signal Network Analysis Including the Baseband. IEEE Microwave Magazine, 2011, 12, 77-86.	0.7	11
84	Supply-terminal 40 MHz BW characterization of impedance-like nonlinear functions for envelope tracking PAs. , 2016, , .		11
85	Design of Experiments Using Centroidal Voronoi Tessellation. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3965-3973.	2.9	11
86	New Methods for Series-Resistor Calibrations on Substrates With Losses Up to 110 GHz. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4287-4297.	2.9	11
87	A General Lineâ€“Line Method for Dielectric Material Characterization Using Conductors With the Same Cross-Sectional Geometry. IEEE Microwave and Wireless Components Letters, 2018, 28, 356-358.	2.0	11
88	Multi-bias nonlinear characterization of GaN FET trapping effects through a multiple pulse time domain network analyzer. , 2015, , .		10
89	Two-Input Nonlinear Dynamic Model Inversion for the Linearization of Envelope-Tracking RF PAs. IEEE Microwave and Wireless Components Letters, 2017, 27, 79-81.	2.0	10
90	A Two-Port Nonlinear Dynamic Behavioral Model of RF PAs Subject to Wideband Load Modulation. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 831-844.	2.9	10

#	Article	IF	Citations
91	Variable-Phase All-Pass Network Synthesis and Its Application to a 14â€“54 GHz Multiband Continuous-Tune Phase Shifter in Silicon. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3480-3496.	2.9	10
92	Biosensor Using a One-Port Interdigital Capacitor: A Resonance-Based Investigation of the Permittivity Sensitivity for Microfluidic Broadband Bioelectronics Applications. Electronics (Switzerland), 2020, 9, 340.	1.8	10
93	Wideband Active Loadâ€“Pull by Device Output Match Compensation Using a Vector Network Analyzer. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 874-886.	2.9	10
94	A Method of Developing Frequency-Domain Models for Nonlinear Circuits Based on Large-Signal Measurements. , 2001, , .		9
95	Theoretical investigation and experimental verification of the nonanalytic form of the conversion equations in a frequency divider by two. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 42-58.	0.8	9
96	Intrinsic Class-F RF GaN power amplifier with a commercial transistor based on a modified “hybrid” approach. , 2012, , .		9
97	A Non-Quasi-Static FET Model Extraction Procedure Using the Dynamic-Bias Technique. IEEE Microwave and Wireless Components Letters, 2015, 25, 841-843.	2.0	9
98	Contactless medical sensing. , 2015, , .		9
99	RF Energy Harvesting from GFSK-Modulated BLE Signals. , 2021, , .		9
100	Concurrent dual-band power amplifier with different operation modes. , 2011, , .		8
101	Analysis of the gate current as a suitable indicator for FET degradation under nonlinear dynamic regime. Microelectronics Reliability, 2011, 51, 235-239.	0.9	8
102	Impact of multisine excitation design on rectifier performance. , 2016, , .		8
103	Biomedical wireless radar sensor network for indoor emergency situations detection and vital signs monitoring. , 2016, , .		8
104	Massive MIMO for SWIPT: A Measurement-Based Study of Precoding. , 2018, , .		8
105	Transmission Strategy for Simultaneous Wireless Information and Power Transfer with a Non-Linear Rectifier Model. Electronics (Switzerland), 2020, 9, 1082.	1.8	8
106	A Cost-Efficient 28 GHz Integrated Antenna Array With Full Impedance Matrix Characterization for 5G NR. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 666-670.	2.4	8
107	Impact of Measurement Uncertainty on Modeling of Dielectric Relaxation in Aqueous Solutions. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4082-4092.	2.9	8
108	A Compact 26.5â€“29.5-GHz LNA-Phase-Shifter Combo With 360Â° Continuous Phase Tuning Based on All-Pass Networks for Millimeter-Wave 5G. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3927-3940.	3.5	8

#	Article	IF	Citations
109	Internet of Things Networks: Enabling Simultaneous Wireless Information and Power Transfer. IEEE Microwave Magazine, 2022, 23, 39-54.	0.7	8
110	Systematic procedure for load-pull X-parameters measurements for high-efficiency GaN HEMT PA design. , 2014, , .		7
111	Straightforward modeling of dynamic I-V characteristics for microwave FETs. International Journal of RF and Microwave Computer-Aided Engineering, 2014, 24, 109-116.	0.8	7
112	Efficient Generation of <formula formulatype="inline"> <tex Notation="TeX">${m X}$</tex></formula>-Parameters Transistor Models by Sequential Sampling. IEEE Microwave and Wireless Components Letters, 2014, 24, 530-532.	2.0	7
113	Modeling of Deterministic Output Emissions of Power Amplifiers Into Adjacent Receive Bands. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1250-1262.	2.9	7
114	Dual-mode wireless sensor network for real-time contactless in-door health monitoring. , 2015, , .		7
115	Maximizing the benefit of existing equipment for nonlinear and communication measurements. , 2016, , .		7
116	Monostatic continuous-wave radar integrating a tunable wideband leakage canceler for indoor tagless localization. International Journal of Microwave and Wireless Technologies, 2017, 9, 1583-1590.	1.5	7
117	A Wideband Efficient Rectifier Design for SWIPT. , 2019, , .		7
118	A Measurement-Based Multisine Design Procedure. , 2006, , .		6
119	Millimeter wave imaging system modeling: spatial frequency domain calculation versus spatial domain calculation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 131.	0.8	6
120	S-functions behavioral model order reduction based on narrowband modulated large-signal network analyzer measurements. , 2010, , .		6
121	Microwave neural modeling for silicon FinFET varactors. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 834-845.	1.2	6
122	A compact measurement set-up for envelope-tracking RF PAs with calibrated sensing of baseband V/I at the supply terminal. , 2015, , .		6
123	Hybrid Nonlinear Modeling Using Adaptive Sampling. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4501-4510.	2.9	6
124	Large signal rectifier characterization for simultaneous data and Power Transfer. , 2016, , .		6
125	An Improved Line-Reflect-Reflect-Match Calibration With an Enhanced Load Model. IEEE Microwave and Wireless Components Letters, 2017, 27, 97-99.	2.0	6
126	A 15-43.5 GHz Switched-Bit Phase Shifter for 5G Mobile Handsets. , 2019, , .		6

#	Article	IF	Citations
127	A Simplified Dielectric Material Characterization Algorithm for Both Liquids and Solids. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1639-1646.	1.4	6
128	A 5G Active Antenna Tile and its Characterization in a Reverberation Chamber. , 2020, , .		6
129	<scp>3D</scp>â€printed pumpkinâ€shaped cavity resonator to determine the complex permittivity of liquids. Microwave and Optical Technology Letters, 2021, 63, 1061-1066.	0.9	6
130	A low cost compact LTCC-based GaN power amplifier module. , 2011, , .		5
131	Non-linear look-up table modeling of GaAs HEMTs for mixer application. , 2012, , .		5
132	Mixer-like modeling with dynamic baseband characterization for supply-modulated PAs. , 2014, , .		5
133	Multi-sine wireless power transfer with a realistic channel and rectifier model. , 2017, , .		5
134	A Unified Approach for Reformulations of LRM/LRMM/LRRM Calibration Algorithms Based on the T-Matrix Representation. Applied Sciences (Switzerland), 2017, 7, 866.	1.3	5
135	A Multiline Multimaterial Calibration Method for Liquid Characterization. IEEE Microwave and Wireless Components Letters, 2018, 28, 732-734.	2.0	5
136	Millimeter wave imaging: System modeling and phenomena discussion. , 2007, , .		4
137	Key nonlinear measurement events. IEEE Microwave Magazine, 2007, 8, 75-78.	0.7	4
138	Accurate Nonlinear Electron Device Modelling for Cold FET Mixer Design. , 2008, , .		4
139	Combined empirical and look-up table approach for non-quasi-static modelling of GaN HEMTs. , 2009, , .		4
140	DISCUSSION ON VALIDITY OF HADAMARD SPECKLE CONTRAST REDUCTION IN COHERENT IMAGING SYSTEMS. Progress in Electromagnetics Research, 2010, 104, 125-143.	1.6	4
141	A method to select correct stimuli levels for S-functions behavioral model extraction. , 2010, , .		4
142	Nonlinear behavioral models of HEMTs using response surface methodology. , 2014, , .		4
143	Comparing LSNA Calibrations: Large-Signal Network Analyzer Round Robin. IEEE Microwave Magazine, 2016, 17, 59-64.	0.7	4
144	A procedure for the extraction of a nonlinear microwave GaN FET model. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2151.	1.2	4

#	Article	IF	Citations
145	Hybrid rectifier-receiver node. , 2017, , .		4
146	Neural procedure for microwave MOSFET modelling versus bias and gate length. , 2017, , .		4
147	3D-Printed Microfluidic Sensor in Substrate Integrated Waveguide Technology. , 2018, , .		4
148	Yeast Cell Growth Monitoring Using Microwave Measurements Correlated to Optical Absorbance. , 2018, , .		4
149	Temperature Dependent Small-Signal Neural Modeling of High-Periphery GaN HEMTs. , 2019, , .		4
150	Compact Broadband Triple-Ring Five-Port Reflectometer for Microwave Brain Imaging Applications. IEEE Access, 2019, 7, 29597-29609.	2.6	4
151	The Unacceptance of a Self-Management Health System by Healthy Older Adults. , 2020, , .		4
152	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
153	A new adaptive multi-biasS-parameter measurement algorithm for transistor characterization. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2005, 18, 267-281.	1.2	3
154	Integrated AlGaN/GaN HEMTs in MCM-D technology. , 2010, , .		3
155	A compact tuneable output network for high efficient chireix outphasing power amplifier design. , 2010, , .		3
156	Artificial neural network based modeling of FinFET forward transmission coefficient. , 2011, , .		3
157	Efficient Dithering Technique With Periodic Waveforms for RF Test and Characterization. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3998-4007.	2.9	3
158	A practical distance measurement improvement technique for a SFCW-based health monitoring radar. , 2013, , .		3
159	Nonlinear characterization of microwave power amplifiers with supply modulation. , 2014, , .		3
160	Pulsed NVNA measurements for dynamic characterization of RF PAs. , 2014, , .		3
161	Design and analysis of a verification device for the nonlinear vector network analyzer. , 2015, , .		3
162	An empirical behavioral model for RF PAs including self-heating. , 2015, , .		3

#	Article	IF	Citations
163	Efficient behavioral model extraction of nonlinear active devices using adaptive sampling with compact nonlinearity measure. , 2015, , .		3
164	Radar range improvement using gradient-free optimization for health care applications. , 2016, , .		3
165	Hybrid nonlinear model for microwave active devices using kriging. , 2017, , .		3
166	Thermal characterization of high-power GaN HEMTs up to 65 GHz. , 2017, , .		3
167	Two-tone FSK Modulation for SWIPT. , 2018, , .		3
168	Development of a planar microwave resonator based wetness sensor. , 2018, , .		3
169	A Comprehensive and Critical Overview of the Kink Effect in S₂₂ for HEMT Technology. , 2019, , .		3
170	Uncertainty in Large-Signal Measurements Under Variable Load Conditions. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3532-3546.	2.9	3
171	A 24 - 30 GHz Ultra-Compact Phase Shifter Using All-Pass Networks for 5G User Equipment. , 2020, , .		3
172	Efficient approach for dielectric permittivity measurements of liquids adopting a 3Dâ€printed cavity resonator. Microwave and Optical Technology Letters, 2021, 63, 2797-2802.	0.9	3
173	Uses and Attitudes of Old and Oldest Adults towards Self-Monitoring Health Systems. , 2019, , .		3
174	Broadband Measurement Setup for Cell Electrorotation. , 2020, , .		3
175	Automatically Segmenting Physical Performance Test Items for Older Adults Using a Doppler Radar: A Proof of Concept Study. IEEE Access, 2021, 9, 152765-152779.	2.6	3
176	Fully Automated Electrically Controlled Tunable Broadband Interferometric Dielectric Spectroscopy for Aqueous Solutions. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 532-541.	2.9	3
177	FORMAT: A Reconfigurable Tile-Based Antenna Array System for 5G and 6G Millimeter-Wave Testbeds. IEEE Systems Journal, 2022, 16, 4489-4500.	2.9	3
178	Development of a frequency-domain simulation tool and nonlinear device model from vectorial large-signal measurements. International Journal of RF and Microwave Computer-Aided Engineering, 2000, 10, 63-72.	0.8	2
179	Measurement driven models of nonlinear electronic components. , 2000, , .		2
180	Systematic Evaluation of Non-Linear Microwave Device and Amplifier Models. , 2006, , .		2

#	Article	IF	Citations
181	Analytical Construction of Nonlinear Lookup Table Model for Advanced Microwave Transistors. , 2007, , .		2
182	Comparison of optical and millimeter wave imaging on speckle. , 2008, , .		2
183	Impact of sampling domain and number of samples on the accuracy of large-signal multisine measurement-based behavioral model. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 374-381.	0.8	2
184	GaN HEMT model extraction based on dynamic-bias measurements. , 2014, , .		2
185	Evaluation of GaN FET power performance reduction due to nonlinear charge trapping effects. , 2014, , .		2
186	General method of seven-term statistical calibration with partially defined standards. , 2014, , .		2
187	Optimization of a next-generation comb generator for accurate large-signal measurements on a user-defined frequency grid. , 2014, , .		2
188	A neural network approach for nonlinear modelling of LDMOSFETs. , 2014, , .		2
189	Active baseband drain-supply terminal load-pull of an X-band GaN MMIC PA. , 2015, , .		2
190	Large-signal modeling of on-wafer microwave transistors based on response surface methodology. , 2015, , .		2
191	Double-pulse characterization of GaN-on-Sapphire FETs for technology development. , 2016, , .		2
192	Iso-thermal and iso-dynamic direct charge function characterization of GaN FET with single large-signal measurement. , 2016, , .		2
193	Dynamic Constraints for Large-Signal Measurements on Arbitrary Grids. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3956-3964.	2.9	2
194	Propagation of Compact-Modeling Measurement Uncertainty to 220 GHz Power-Amplifier Designs. , 2018, , .		2
195	Microfluidic Biosensor for Bioengineering: High-frequency Equivalent-Circuit Modeling of Interdigital Capacitor. , 2019, , .		2
196	Analysis of Channel Hardening for SWIPT using Measured Massive MIMO Channels. , 2019, , .		2
197	Microwave Characterization of Liquid Mixtures with a Miniaturized Interdigital Sensor. , 2019, , .		2
198	Enhanced Wideband Active Load-Pull with a Vector Network Analyzer Using Modulated Excitations and Device Output Match Compensation. , 2020, , .		2

#	Article	IF	Citations
199	Physical Activity Recognition Using Continuous Wave Radar With Deep Neural Network. , 2020, , .		2
200	RF vector measurement test-bench for evaluation of behavioral model accuracy under realistic excitation. , 2006, , .		1
201	Resolving differences of parameter extraction methods for integrated inductor design and model validation. Analog Integrated Circuits and Signal Processing, 2007, 53, 71-79.	0.9	1
202	Nonlinear modeling of InP devices for W-band applications. International Journal of Microwave and Wireless Technologies, 2009, 1, 145-151.	1.5	1
203	A very compact power amplifier using GaN HEMTs in multilayer thin-film technology. , 2010, , .		1
204	A low-cost linear upconverter to extend frequency range of vector signal generator. , 2011, , .		1
205	Women in MTT-S [From the Editor's Desk]. IEEE Microwave Magazine, 2011, 12, 6-12.	0.7	1
206	Octave-bandwidth band-pass filter with high selectivity and wide highly-suppressed stopband. , 2012, , .		1
207	Design and evaluation of dual-band antennas aimed for contactless health monitoring radar. , 2013, , .		1
208	Microwave FET model identification based on vector intermodulation measurements. , 2013, , .		1
209	Behavioral modeling approach for array of amplifiers in active antenna array system. , 2013, , .		1
210	Modelling insight into the resonance frequencies of the microwave impedance parameters for GaAs HEMTs. , 2013, , .		1
211	Artificial neural network modeling for transistors and varactors in FinFET technology. , 2013, , .		1
212	Thermal characterization of nonlinear charge trapping effects in GaN-FETs. , 2014, , .		1
213	Neural network modelling of GaAs pHEMTs suitable for millimeter-wave mixer design. , 2015, , .		1
214	Hybrid load-pull system using a two-source nonlinear vector network analyzer. , 2015, , .		1
215	Impact of microwave measurement uncertainty on the Nonlinear Embedding procedure. , 2016, , .		1
216	A nonlinear verification device for nonlinear vector network analyzers. , 2016, , .		1

#	Article	IF	Citations
217	Behavioral modeling of RF PAs under wideband load modulation. , 2017, , .		1
218	Impact of transistor model uncertainty on microwave load-pull simulations. , 2017, , .		1
219	Multi-bias equivalent circuit for MOSFET modelling. , 2017, , .		1
220	Load-pull measurements using Centroidal Voronoi Tessellation. , 2017, , .		1
221	Design and Evaluation of Nonlinear Verification Device for Nonlinear Vector Network Analyzers. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1121-1130.	2.9	1
222	A Contribution to the Modeling of Longitudinally Periodic Waveguides by the Help of the TLM-Method. , 1997, , .		0
223	Frequency-Domain Simulation Tool Dedicated for Frequency-Domain Based Non-Linear Models. , 1998, , .		0
224	A Universal Circuit for Microwave and Millimeterwave Oscillator Applications. , 1999, , .		0
225	Feedback Amplifier based on an Embedded HEMT in Thin-film Multilayer MCM-D Technology. , 2003, , .		0
226	Accurate Large-Signal Time-Domain Behavioral Model for Multi-Signal Analysis. , 2006, , .		0
227	Wideband Large-Signal RF Measurements Applied to Behavioral Model Extraction. , 2006, , .		0
228	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
229	Guest Editorial on Measurement. IEEE Microwave Magazine, 2007, 8, 6-10.	0.7	0
230	System level modelling of RF power amplifiers based on large-signal measurements. , 2007, , .		0
231	Three-stage Doherty amplifier for WiMAX application. , 2008, , .		0
232	A load-pull wafer-mapper. , 2008, , .		0
233	IJMWT special issue on the European Microwave Week 2008. International Journal of Microwave and Wireless Technologies, 2009, 1, 239-240.	1.5	0
234	Simple and accurate approaches to implement the complex trans-conductance suited for time-domain simulators for small-signal and large-signal table-based models. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2010, 23, n/a-n/a.	1.2	0

#	Article	IF	Citations
235	Influence of antenna's directivity in indoor mmW/THz SAR imaging systems: A system level simulation-based study. , 2011, , .		0
236	Optimizing microwave measurements for model construction and validation. , 0, , 257-286.		0
237	Team projects for ICT master students: Evaluation and case studies. , 2011, , .		0
238	Modified LINC transmitter using efficient parallel amplification scheme. Microwave and Optical Technology Letters, 2011, 53, 1555-1558.	0.9	0
239	Slot coupled patch antenna in MCM-D for millimeter wave detector matrix applications. International Journal of Microwave and Wireless Technologies, 2012, 4, 407-412.	1.5	0
240	Possible improvements of exisiting indoor MMW focal plane imaging systems. , 2012, , .		0
241	ARFTG June 2012. IEEE Microwave Magazine, 2012, 13, 68-69.	0.7	0
242	Broadband GaN-ON-Si power amplifier module with fully integrated low temperature cofired ceramic passives. Microwave and Optical Technology Letters, 2012, 54, 369-372.	0.9	0
243	The MTT-S MGA and Education Committees Are Prepared to Assist Your Chapter, the Moscow Joint Chapter Activity Is an Example [Education News]. IEEE Microwave Magazine, 2013, 14, 165-178.	0.7	0
244	1.3 GHz power amplifier design using a measurement-based transistor package model. , 2014, , .		0
245	Mixer-like modeling with dynamic baseband characterization for supply-modulated PAs. , 2014, , .		0
246	Generic highâ€frequency smallâ€signal lookâ€up table model extraction for Siâ€“Ge heterojunction bipolar transistors. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 923-934.	1.2	0
247	Guest editorial for the special issue on modeling of highâ€frequency silicon transistors. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 703-706.	1.2	0
248	Adaptive sampling method for experiments with fixed-grid variables in measurements of nonlinear active devices. , 2015, , .		0
249	Active baseband drain-supply terminal load-pull of an X-band GaN MMIC PA. , 2015, , .		0
250	Concurrent surrogate modeling and adaptive sampling in load-pull measurements. , 2015, , .		0
251	IEEE MTT-S International Microwave and RF Conference (IMaRC2014) [Conference Report]. IEEE Microwave Magazine, 2015, 16, 116-118.	0.7	0
252	Spring ARFTG 2018 Microwave Measurement Conference. IEEE Microwave Magazine, 2018, 19, 68-69.	0.7	0

#	Article	IF	Citations
253	Looking Back, Moving Forward [President's Column]. IEEE Microwave Magazine, 2018, 19, 8-11.	0.7	0
254	Assuming Leadership of the MTT-S [President's Column]. IEEE Microwave Magazine, 2018, 19, 10-12.	0.7	0
255	Preliminary Measurements of Magnetic Nanoparticles as Potential Biomarkers for Impedance Flow Cytometry. , 2018, , .		0
256	Microwave determination of liquid mixing ratio for microfluidics. , 2018, , .		0
257	Examination on a self-mixing circuit. , 2018, , .		0
258	Rich in Our Diversity [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-9.	0.7	0
259	News From the IEEE Meeting Series [President's Column]. IEEE Microwave Magazine, 2019, 20, 10-12.	0.7	0
260	Introducing the Revamped MTT-S Website-A Wealth of Information for Members [President's Column]. IEEE Microwave Magazine, 2019, 20, 9-10.	0.7	0
261	A Passing to Note and an Update on MTT-S Technical Committees [President's Column]. IEEE Microwave Magazine, 2019, 20, 10-12.	0.7	0
262	Update on Member Benefits [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-10.	0.7	0
263	New Developments for the MTT-S [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-75.	0.7	0
264	Recent Accomplishments, Future Directions [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-10.	0.7	0
265	Responding to Diversity [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-10.	0.7	0
266	The IMS Experience [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-10.	0.7	0
267	An Ultra-Wideband Sensing Board for Radio Frequency Front-End in IoT Transmitters. Electronics (Switzerland), 2019, 8, 1191.	1.8	0
268	Broadband Determination of Liquid Mixing Ratio through One-Port Microwave Measurements. , 2019, , .		0
269	Discussion on Rectifier Models for Wireless Power Transfer Excitation Design. , 2019, , .		0
270	Microwave Dielectric Sensing for Sample Preparation in Digital Microfluidics. , 2019, , .		0

#	Article	IF	Citations
271	Reflecting on My Tenure as Society President [President's Column]. IEEE Microwave Magazine, 2019, 20, 10-12.	0.7	0
272	Robust One-Tier Calibration for Microwave Microfluidics using Unknown Liquids. , 2019, , .		0
273	Focus on the IEEE Microwave Theory and Techniques Society Administrative Committee [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-20.	0.7	0
274	Looking to 2019 [President's Column]. IEEE Microwave Magazine, 2019, 20, 8-9.	0.7	0
275	Phase-Control Techniques for Sub-Sampling Phase-Locked Loops. , 2020, , .		0
276	Goodbye to My Term as MTT-S President [President's Column]. IEEE Microwave Magazine, 2020, 21, 6-10.	0.7	0
277	EuMW 2020 Special Issue. International Journal of Microwave and Wireless Technologies, 2021, 13, 507-508.	1.5	0
278	Modelling using high-frequency measurements. , 2006, , 97-119.		0
279	Designing a Tablet-Based Application for Self-Assessment Questionnaires with Nursing Home Residents. , 2020, , .		0
280	Efficient Approximation Models of Microwave Devices Through Incremental Modeling. , 2020, , .		0
281	Indoor Microwave Sensors for Human Health Monitoring. , 2021, , .		0
282	Influence of Motivational Design Techniques on Use and Acceptance of Self-Management Health Systems in Older Adults. EAI Endorsed Transactions on Pervasive Health and Technology, 0, , 172219.	0.7	0
283	Analysis of Ultra-Broadband Phase-Shifters for 5G User Equipment. , 2020, , .		0
284	Impact of Array Antenna Types on Heart Rate Monitoring Radar. , 2022, , .		0