

Bart K J C Nauwelaers

List of Publications by Year in descending order

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319
papers

2,860
citations

331259

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315357

38
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all docs

321
docs citations

321
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Sensitivity Large-Throughput Broadband Tunable Microwave Wear Debris Sensing System. IEEE Sensors Journal, 2022, 22, 304-314.	2.4	5
2	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
3	Analysis of Microwave Heating Devices for Microfluidics. , 2022, , .		0
4	Microwave Interferometric on-chip Measurement of the Collagen Gel. , 2022, , .		0
5	Complementary Split-Ring Resonator With Improved Dielectric Spatial Resolution. IEEE Sensors Journal, 2021, 21, 4543-4552.	2.4	9
6	Numerical modeling of two microwave sensors for biomedical applications. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, .	1.2	15
7	Flexible, Segmented Tubular Design With Embedded Complementary Split-Ring Resonators for Tissue Identification. IEEE Sensors Journal, 2021, 21, 16024-16032.	2.4	3
8	Complementary Split-Ring Resonator for Microwave Heating of $\hat{\mu}$ L Volumes in Microwells in Continuous Microfluidics. Chemosensors, 2021, 9, 184.	1.8	3
9	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
10	An impedance matched interdigital capacitor at 1.5 GHz for microfluidic sensing applications. Sensors and Actuators A: Physical, 2021, 330, 112867.	2.0	4
11	Controlled Measurement Setup for Ultra-Wideband Dielectric Modeling of Muscle Tissue in 20 \hat{c} 45 \hat{c} Temperature Range. Sensors, 2021, 21, 7644.	2.1	3
12	Non-Invasive Microwave Hyperthermia and Simultaneous Temperature Monitoring with a Single Theranostic Applicator [*] . , 2021, 2021, 1314-1317.		0
13	A 4 \hat{c} 4 Array of Complementary Split-Ring Resonators for Label-Free Dielectric Spectroscopy. Chemosensors, 2021, 9, 348.	1.8	4
14	Effect of Dehydration on Dielectric Measurements of Biological Tissue as Function of Time. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 200-207.	2.3	17
15	Dielectric-based temperature sensing of nanoliter water samples with a post-processing tuned matching network. Measurement Science and Technology, 2020, 31, 115104.	1.4	1
16	Design and Comparison of Resonant and Non-Resonant Single-Layer Microwave Heaters for Continuous Flow Microfluidics in Silicon-Glass Technology. Energies, 2020, 13, 2635.	1.6	8
17	A Microwave Platform for Reliable and Instant Interconnecting Combined with Microwave-Microfluidic Interdigital Capacitor Chips for Sensing Applications. Sensors, 2020, 20, 1687.	2.1	9
18	Novel Fabrication Process for Integration of Microwave Sensors in Microfluidic Channels. Micromachines, 2020, 11, 320.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Biosensor Using a One-Port Interdigital Capacitor: A Resonance-Based Investigation of the Permittivity Sensitivity for Microfluidic Broadband Bioelectronics Applications. <i>Electronics (Switzerland)</i> , 2020, 9, 340.	1.8	10
20	Effect of Open-Ended Coaxial Probe-to-Tissue Contact Pressure on Dielectric Measurements. <i>Sensors</i> , 2020, 20, 2060.	2.1	22
21	Integration of Interdigitated Electrodes in Split-Ring Resonator for Detecting Liquid Mixtures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 2080-2089.	2.9	42
22	Multisegment Multiconductor Transmission Line Model of High-Current Card-Edge Connectors With Analytically Calculated Model Parameters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 538-547.	1.4	1
23	A 20-GHz Microwave Miniaturized Ring Resonator for nL Microfluidic Sensing Applications. , 2019, 3, 1-4.		15
24	Reliable, Fast and Reusable Interfacing of High-Frequency Signals to Disposable Lab-on-a-Chip Devices. , 2019, , .		3
25	Modeling of Coplanar Interdigital Capacitor for Microwave Microfluidic Application. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 2674-2683.	2.9	32
26	An Interdigital Capacitor for Microwave Heating at 25 GHz and Wideband Dielectric Sensing of nL Volumes in Continuous Microfluidics. <i>Sensors</i> , 2019, 19, 715.	2.1	16
27	Microfluidic Biosensor for Bioengineering: High-frequency Equivalent-Circuit Modeling of Interdigital Capacitor. , 2019, , .		2
28	Broadband Determination of Liquid Mixing Ratio through One-Port Microwave Measurements. , 2019, , .		0
29	Microwave Dielectric Sensing for Sample Preparation in Digital Microfluidics. , 2019, , .		0
30	Electrically Controlled Tunable Broadband Interferometric Dielectric Spectroscopy: Groundwork for Single Cell Analysis. , 2019, , .		2
31	Microwave Characterization of Liquid Mixtures with a Miniaturized Interdigital Sensor. , 2019, , .		2
32	A Simplified Dielectric Material Characterization Algorithm for Both Liquids and Solids. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 1639-1646.	1.4	6
33	A Planar One-Port Microwave Microfluidic Sensor for Microliter Liquids Characterization. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2018, 2, 10-17.	2.3	46
34	A General Line-Method for Dielectric Material Characterization Using Conductors With the Same Cross-Sectional Geometry. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 356-358.	2.0	11
35	A Modeling Procedure of the Broadband Dielectric Spectroscopy for Ionic Liquids. <i>IEEE Transactions on Nanobioscience</i> , 2018, 17, 387-393.	2.2	19
36	Broadband Dielectric Spectroscopy of Cell Cultures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 5750-5759.	2.9	42

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37	Metamaterial inspired miniaturized SIW resonator for sensor applications. Sensors and Actuators A: Physical, 2018, 283, 313-316.	2.0	15
38	A PCB-Embedding Scheme for LCP Ribbon Waveguide at D-band. , 2018, , .		2
39	Novel Broadband Transition for Rectangular Dielectric Waveguide to Planar Circuit Board at D Band. , 2018, , .		7
40	Yeast Cell Growth Monitoring Using Microwave Measurements Correlated to Optical Absorbance. , 2018, , .		4
41	Improved Estimation of Radiated Fields of Unintentional Radiators by Correction of the Impedance Mismatch Between a Transverse Electromagnetic Cell and a Hybrid Coupler. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1717-1725.	1.4	6
42	A Multiline Multimaterial Calibration Method for Liquid Characterization. IEEE Microwave and Wireless Components Letters, 2018, 28, 732-734.	2.0	5
43	Microwave determination of liquid mixing ratio for microfluidics. , 2018, , .		0
44	Real-Time kHz to GHz Monitoring of Incubated Yeast Cell Growth Using Interdigitated Capacitors. , 2018, , .		1
45	Modal analysis based equivalent circuit model and its verification for a single cMUT cell. Journal of Micromechanics and Microengineering, 2017, 27, 035001.	1.5	11
46	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
47	EMC-oriented design of output stage of synchronous buck converter. , 2017, , .		4
48	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
49	Liquid measurements at microliter volumes using 1-port coplanar interdigital capacitor. , 2017, , .		8
50	Investigation of thermal effect caused by different input power of biosensor using a novel microwave and optical sensing system for biological liquids. , 2017, , .		4
51	Uniplanar microwave heater for digital microfluidics. , 2017, , .		9
52	Coplanar waveguide for dielectric material measurements at frequencies from 140 GHz to 220 GHz. , 2017, , .		6
53	Broadband dielectric spectroscopy measurements of liquids combining interdigital capacitor and coplanar waveguide. , 2017, , .		6
54	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

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55	Broadband interferometric dielectric spectroscopy for aqueous solutions. , 2017, , .		3
56	A 20 GHz microwave heater for digital microfluidic. International Journal of Microwave and Wireless Technologies, 2017, 9, 1591-1596.	1.5	11
57	A general multi-mode lumped equivalent circuit model for circular cMUT cells. , 2016, , .		3
58	Radiation of Small Loop Above Finite Image Plane. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 935-938.	1.4	0
59	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
60	Characterization of a novel microwave heater for continuous flow microfluidics fabricated on high-resistivity silicon. , 2016, , .		6
61	Millimeter wave planar transition from plastic rectangular waveguide to 1 mm coax. , 2016, , .		5
62	A survey on multiple access Visible Light Positioning. , 2016, , .		27
63	Radiation of synchronous buck converter modelled by three magnetic moments and combined with SPICE simulations. , 2016, , .		0
64	Radiation characteristics of small loop antenna above perforated finite image plane. , 2015, , .		0
65	Micromechanical ring resonators with a 2D phononic crystal support for mechanical robustness and providing mask misalignment tolerance. , 2015, , .		1
66	A test bench for a VLP system using CDMA as Multiple Access Technology. , 2015, , .		3
67	Microwave heater at 20 GHz for nanoliter scale digital microfluidics. , 2015, , .		7
68	Radiation of input decoupling network typically used in switching DC-DC converters. , 2015, , .		2
69	Optimized shape of a parametric designed HF loop antenna. , 2015, , .		0
70	Performance simulations of a 2.4 GHz indoor angle of arrival system for multipath components. , 2015, , .		2
71	Influence of MAI in a CDMA VLP system. , 2015, , .		1
72	Extraction of small-signal model parameters of Si/SiGe heterojunction bipolar transistor using least squares support vector machines. Electronics Letters, 2015, 51, 1821-1823.	0.5	1

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73	A Visible Light Positioning system using Frequency Division Multiple Access with square waves. , 2015, , .		28
74	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
75	Capacitive micromachined ultrasonic transducers for acoustic manipulation. , 2015, , .		1
76	SPICE analysis of RL and RC snubber circuits for synchronous buck DC-DC converters. , 2015, , .		9
77	Study of broadband propagation characteristic of quasi-fractal phononic crystal for enhanced sensing applications. , 2015, , .		0
78	Electromagnetic-Analysis-Based Transistor De-embedding and Related Radio-Frequency Amplifier Design. , 2014, , 317-383.		0
79	Temperature controlled measurement setup for permittivity extraction of water up to 40 GHz from 10 to 40 °C. , 2014, , .		2
80	A bottom-up cell modeling strategy using broadband microwave and millimeter wave dielectric spectroscopy. , 2014, , .		0
81	A 90 GHz liquid sensing substrate integrated cavity resonator in LTCC for microfluidic sensing applications. , 2014, , .		4
82	Optical CDMA codes for an indoor localization system using VLC. , 2014, , .		22
83	Distributed, Signal Strength-Based Indoor Localization Algorithm for Use in Healthcare Environments. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1887-1893.	3.9	22
84	Broadband dielectric spectroscopy calibration for microliter samples of biogenic liquid. , 2014, , .		7
85	Circuit modelling of printed circuit boards for a DC-DC converter design. , 2014, , .		1
86	Resolving positions of coherent sources using linear antenna arrays at 2.4 GHz. , 2014, , .		0
87	An FPGA-based digital predistorter for RF power amplifier linearization using cross-memory polynomial model. , 2014, , .		9
88	Generic high-frequency small-signal look-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
89	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
90	Broadband dielectric spectroscopy calibration using calibration liquids with unknown permittivity. , 2014, , .		6

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91	Influence of Bluetooth Low Energy on WIFI Communications and Vice Versa. Lecture Notes in Electrical Engineering, 2014, , 205-216.	0.3	5
92	Evaluation of angle of arrival estimation for localization in multiple indoor environments. , 2014, , .		4
93	Automated design of an HF RFID loop antenna based on parametric geometry modification. , 2014, , .		5
94	Characterization of Intermodulation and Memory Effects Using Offset Multisine Excitation. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 645-657.	2.9	17
95	A 2.4 GHz phase locked loop for a linear phased antenna array. , 2014, , .		2
96	Simple and Scalable Methodology for Equivalent Circuit Modeling of IC Packages. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 303-315.	1.4	11
97	Implementation of a Project-Based Telecommunications Engineering Design Course. IEEE Transactions on Education, 2014, 57, 25-33.	2.0	18
98	An inexpensive backside-sensing coplanar waveguide sensor for characterization of liquids and solids up to 40 GHz. , 2014, , .		0
99	FEM simulation and measurement validation of a cMUT cell. , 2014, , .		2
100	Using a decision tree for real-time distributed indoor localization in healthcare environments. , 2014, , .		2
101	Matlab based platform for the evaluation of modulation techniques used in VLC. , 2014, , .		4
102	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
103	A smart wearable textile array system for biomedical telemetry applications. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2253-2261.	2.9	64
104	Millimeter wave on-wafer measurement of yeast cell suspension using a CPW test fixture in LCP technology. , 2013, , .		5
105	Microstrip to buried waveguide probe feeds for V- and W-band in LTCC technology. , 2013, , .		3
106	Behavioral modeling approach for array of amplifiers in active antenna array system. , 2013, , .		1
107	Design of a visible light communication transmitter for the evaluation of a wide range of modulation techniques. , 2013, , .		6
108	Process tolerant design of baw resonators via hole engineering. , 2013, , .		0

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109	Dielectric characterization of biological liquids and tissues up to 110 GHz using an LTCC CPW sensor. , 2013, , .		8
110	EuMW Special Issue. International Journal of Microwave and Wireless Technologies, 2013, 5, 195-196.	1.5	0
111	A system-level simulator for indoor mmW SAR imaging and its applications. Optics Express, 2012, 20, 23811.	1.7	24
112	Octave-bandwidth band-pass filter with high selectivity and wide highly-suppressed stopband. , 2012, , .		1
113	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
114	Characterizing the TEM Cell Electric and Magnetic Field Coupling to PCB Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 976-985.	1.4	34
115	A novel indoor localization system for healthcare environments. , 2012, , .		7
116	Nonlinear deembedding of microwave large-signal measurements. , 2012, , .		4
117	Possible improvements of existing indoor MMW focal plane imaging systems. , 2012, , .		0
118	Waveforms-based large-signal identification of transistor models. , 2012, , .		4
119	Optimization of an RFID loop antenna with smart goal functions. , 2012, , .		6
120	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
121	60 GHz low noise amplifiers with 1 kV CDM protection in 40 nm LP CMOS. , 2012, , .		4
122	Fully micromachined W-band rectangular waveguide to grounded coplanar waveguide transition. IET Microwaves, Antennas and Propagation, 2012, 6, 533.	0.7	8
123	Waveforms-Only Based Nonlinear De-Embedding in Active Devices. IEEE Microwave and Wireless Components Letters, 2012, 22, 215-217.	2.0	18
124	Design and reliability evaluation of passive HF RFID systems in metal environments. , 2011, , .		6
125	A low-cost linear upconverter to extend frequency range of vector signal generator. , 2011, , .		1
126	Influence of antenna's directivity in indoor mmW/THz SAR imaging systems: A system level simulation-based study. , 2011, , .		0

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127	Identification technique of FET model based on vector nonlinear measurements. Electronics Letters, 2011, 47, 1323.	0.5	16
128	Waveguide tuner stabilized ultra low phase noise 60 GHz SiGe:C oscillator MMIC. , 2011, , .		2
129	Analysis of the Realistic Resolution with Angle of Arrival for Indoor Positioning. , 2011, , .		1
130	Circuits and systems engineering education through interdisciplinary team-based design projects. , 2011, , .		10
131	On the evaluation of the high-frequency load line in active devices. International Journal of Microwave and Wireless Technologies, 2011, 3, 19-24.	1.5	9
132	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
133	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
134	Vector two-tone measurements for validation of non-linear microwave FinFET model. Microelectronic Engineering, 2010, 87, 2008-2013.	1.1	13
135	LIMITATIONS OF APPROXIMATIONS TOWARDS FOURIER OPTICS FOR INDOOR ACTIVE MILLIMETER WAVE IMAGING SYSTEMS. Progress in Electromagnetics Research, 2010, 109, 245-262.	1.6	11
136	DISCUSSION ON VALIDITY OF HADAMARD SPECKLE CONTRAST REDUCTION IN COHERENT IMAGING SYSTEMS. Progress in Electromagnetics Research, 2010, 104, 125-143.	1.6	4
137	Experimental investigation of LF dispersion and IMD asymmetry within GaN based HEMT technology. , 2010, , .		2
138	A de-embedding procedure oriented to the determination of FET intrinsic I-V characteristics from high-frequency large-signal measurements. , 2010, , .		4
139	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
140	Evaluation of lookup-table non-quasi-static nonlinear models at microwave and mm-wave frequencies. , 2010, , .		3
141	A wideband beamformer for a phased-array 60GHz receiver in 40nm digital CMOS. , 2010, , .		37
142	Time of Arrival Based on Chirp Pulses as a means to Perform Localization in IEEE 802.15.4a Wireless Sensor Networks. Advances in Electrical and Computer Engineering, 2010, 10, 65-70.	0.5	7
143	50-to-67GHz ESD-protected power amplifiers in digital 45nm LP CMOS. , 2009, , .		32
144	Low-Cost CMOS-Based Receive Modules for 60 GHz Wireless Communication. , 2009, , .		3

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145	Detailed analysis of parasitic loading effects on power performance of GaN-on-silicon HEMTs. Solid-State Electronics, 2009, 53, 185-189.	0.8	11
146	Millimeter wave micromachined cavity resonators on MCM-D: Oscillator-resonator co-design and packaging considerations. , 2009, , .		2
147	Technology-Independent Non-Quasi-Static Table-Based Nonlinear Model Generation. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2845-2852.	2.9	30
148	Influence of Different Types of Metal Plates on a High Frequency RFID Loop Antenna: Study and Design. Advances in Electrical and Computer Engineering, 2009, 9, 3-8.	0.5	20
149	Wide-band hybrid power amplifier design using GaN FETs. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 536-542.	0.8	5
150	WiMAX class AB and class E power amplifier design using equivalent capacitance concept. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 543-551.	0.8	1
151	Black box modelling of the Op-Amp including switching power supply on effect. AEU - International Journal of Electronics and Communications, 2008, 62, 544-548.	1.7	5
152	RF Class-E Power Amplifier Design Based on a Load Line-Equivalent Capacitance Method. IEEE Microwave and Wireless Components Letters, 2008, 18, 206-208.	2.0	13
153	60 GHz ultra low phase noise sige common base oscillator using a wirebond coupled mcm integrated micromachined cavity resonator. , 2008, , .		6
154	Study of active millimeter-wave image speckle reduction by Hadamard phase pattern illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 312.	0.8	17
155	Efficiency Enhancement of Harmonic-Tuned GaN Power Amplifier Using Doherty like Load Modulation. Compound Semiconductor Integrated Circuit Symposium (CSICS), IEEE, 2008, , .	0.0	1
156	Simultaneous measurement of high and low frequency response of non-linear microwave circuits. , 2008, , .		5
157	Horizontal Integration of Cavity Filters on High-Resistivity Silicon Thin-Film Technology. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2893-2901.	2.9	6
158	Inexpensive solution to double RF bandwidth of vector signal generator. , 2008, , .		1
159	Thin-film MCM-D technology with through-substrate vias for the integration of 3D SIP modules. , 2008, , .		11
160	Ultra-Miniaturized Integrated Cavities on High-Resistivity Silicon Thin-Film MCM-D Technology. , 2008, , .		5
161	Three-stage Doherty amplifier for WiMAX application. , 2008, , .		0
162	Doherty amplifier design for 3.5 GHz WiMAX considering load line and loop stability. , 2008, , .		2

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163	Non-quasi-static nonlinear model for FinFETs using higher-order sources. , 2008, , .		2
164	Doherty amplifier design for 3.5 GHz WiMAX considering load line and loop stability. , 2008, , .		1
165	Comparison of optical and millimeter wave imaging on speckle. , 2008, , .		2
166	Complete characterisation of LF and RF dynamics at device terminals within microwave circuits. , 2008, , .		2
167	A Robust Semantic Overlay Network for Microgrid Control Applications. Lecture Notes in Computer Science, 2008, , 101-123.	1.0	15
168	GaN power amplifier design based on artificial neural network modelling. , 2007, , .		7
169	Millimeter wave imaging: System modeling and phenomena discussion. , 2007, , .		4
170	An electrostatic fringing-field actuator (EFFA): application towards a low-complexity thin-film RF-MEMS technology. Journal of Micromechanics and Microengineering, 2007, 17, S204-S210.	1.5	31
171	System modelling for millimeter-wave imaging systems using a 2.5D calculation method. , 2007, , .		0
172	Microstrip thin-film MCM-D technology on high-resistivity silicon with integrated through-substrate vias. , 2007, , .		5
173	Novel Effa-Based Thin-Film RF-MEMS Technology. , 2007, , .		1
174	Microstrip thin-film MCM-D technology on high-resistivity silicon with integrated through-substrate vias. , 2007, , .		9
175	Analytical Model of the DC Actuation of Electrostatic MEMS Devices With Distributed Dielectric Charging and Nonplanar Electrodes. Journal of Microelectromechanical Systems, 2007, 16, 1243-1253.	1.7	123
176	A new method to characterize substrate conductivity. , 2007, , .		1
177	Analysis and Modeling of Power Grid Transmission lines. , 2006, , .		2
178	Harmonic orthogonality condition in RF Class-E Power Amplifiers. , 2006, , .		0
179	Four-port Deembedding Technique for FET Devices Mounted in Hybrid Test Fixture. , 2006, , .		2
180	RF-MEMS technology platform for agile mobile and satellite communications. , 2006, , .		2

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181	Wafer-level package interconnect options. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2006, 14, 654-659.	2.1	13
182	A Measurement-Based Multisine Design Procedure. , 2006, , .		6
183	Efficient Link Architecture for On-Chip Serial links and Networks. , 2006, , .		2
184	Ar Implantation, a Passivation Technique for High-Resistivity Silicon within the MCM-D Technology. , 2006, , .		11
185	RF vector measurement test-bench for evaluation of behavioral model accuracy under realistic excitation. , 2006, , .		1
186	Large-signal behavioural modelling - from transistor to amplifier. , 2006, , .		0
187	A surface micromachined electrostatically tunable film bulk acoustic resonator. Sensors and Actuators A: Physical, 2006, 126, 436-446.	2.0	13
188	Extraction of small-signal equivalent circuit model parameters for Si/SiGe HBT using S-parameters measurements and one geometrical information. AEU - International Journal of Electronics and Communications, 2006, 60, 567-572.	1.7	4
189	Characterization of speckle/despeckling in active millimeter wave imaging systems using a first order 1.5D model. , 2006, 6194, 60.		2
190	Accurate Large-Signal Time-Domain Behavioral Model for Multi-Signal Analysis. , 2006, , .		0
191	Fast Modeling and Optimization of Active Millimeter Wave Imaging Systems. , 2006, , .		8
192	RF-MEMS technology platform for agile mobile and satellite communications. , 2006, , .		6
193	Wideband Large-Signal RF Measurements Applied to Behavioral Model Extraction. , 2006, , .		0
194	Compact and high-accuracy RF MEMS capacitive series devices. , 2005, 5717, 55.		2
195	Detecting variations of small-signal equivalent-circuit model parameters in the Si/SiGe HBT process with ANN. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 102-108.	0.8	5
196	Constitutive relations for nonlinear modeling of Si/SiGe HBTs using an ANN model. International Journal of RF and Microwave Computer-Aided Engineering, 2005, 15, 203-209.	0.8	17
197	GaN FET's non-linear model constructed by adaptive multi-bias S-parameter measurements. , 2005, , .		1
198	Package level interconnect options. , 2005, , .		8

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199	Integration of silicon etched waveguides with MCM-D for V- and W-band. , 2005, , .		2
200	Filter-through device: a distributed RF-MEMS capacitive series switch. Journal of Micromechanics and Microengineering, 2005, 15, S97-S102.	1.5	10
201	A physics-based VLSI interconnect model including substrate and conductor skin effects. Semiconductor Science and Technology, 2004, 19, 516-518.	1.0	1
202	Accurate RF Electrical Characterization of CSPs Using MCM-D Thin Film Technology. IEEE Transactions on Advanced Packaging, 2004, 27, 203-212.	1.7	5
203	A surface micromachined tunable film bulk acoustic resonator. , 2004, 5455, 166.		3
204	RF-power: driver for electrostatic RF-MEMS devices. Journal of Micromechanics and Microengineering, 2004, 14, S43-S48.	1.5	26
205	High frequency modelling approach of on-chip interconnects considering conductor and substrate skin effects. Microelectronics International, 2004, 21, 35-38.	0.4	0
206	The influence of packaging materials on RF performance. Microelectronics Reliability, 2003, 43, 351-357.	0.9	10
207	Characterisation, Modelling and Design of Bond-Wire Interconnects for Chip-Package Co-Design. , 2003, , .		7
208	Modeling and characterization of the polymer stud grid array (PSGA) package: electrical, thermal and thermo-mechanical qualification. IEEE Transactions on Electronics Packaging Manufacturing, 2003, 26, 54-67.	1.6	8
209	New modeling approach of on-chip interconnects for RF integrated circuits in CMOS technology. Microelectronics International, 2003, 20, 41-44.	0.4	2
210	Add-on Cu/SiLK/sup TM/ module for high Q inductors. IEEE Electron Device Letters, 2002, 23, 173-175.	2.2	15
211	Frequency-dependent closed-form expressions for inductance and resistance of a single interconnect on a silicon substrate. Journal Physics D: Applied Physics, 2002, 35, L18-L20.	1.3	0
212	On the frequency-dependent line capacitance and conductance of on-chip interconnects on lossy silicon substrate. Microelectronics International, 2002, 19, 11-18.	0.4	2
213	Electrical characterisation of BGA package for RF applications. Microelectronics International, 2002, 19, 13-18.	0.4	2
214	Physics-based closed-form inductance expression for compact modeling of integrated spiral inductors. IEEE Journal of Solid-State Circuits, 2002, 37, 77-80.	3.5	116
215	Some measurement results for frequency-dependent inductance of IC interconnects on a lossy silicon substrate. IEEE Electron Device Letters, 2002, 23, 103-104.	2.2	1
216	S-parameter reciprocity relations, normalization, and thru-line-reflect error box completion. International Journal of RF and Microwave Computer-Aided Engineering, 2002, 12, 418-427.	0.8	2

#	ARTICLE	IF	CITATIONS
217	Frequency-dependent expressions for inductance and resistance of microstrip line on silicon substrate. <i>Microwave and Optical Technology Letters</i> , 2002, 33, 349-352.	0.9	2
218	Highly accurate closed form approximation for frequency-dependent line impedance of a lossy silicon substrate IC interconnect. <i>Microelectronic Engineering</i> , 2002, 60, 31-37.	1.1	1
219	Accurate analytic expressions for frequency-dependent inductance and resistance of single on-chip interconnects on conductive silicon substrate. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 293, 195-198.	0.9	6
220	On the frequency-dependent line admittance of VLSI interconnect lines on silicon-based semiconductor substrates. <i>Microelectronics Journal</i> , 2002, 33, 449-458.	1.1	1
221	A CAD-oriented analytical model for frequency-dependent series resistance and inductance of microstrip on-chip interconnect on silicon substrate. <i>Microprocessors and Microsystems</i> , 2002, 26, 45-48.	1.8	0
222	Highly Accurate Quasi-Static Modeling of Coupled Interconnects in CMOS Technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2002, 30, 249-252.	0.9	0
223	Multilayer thin-film MCM-D for the integration of high-performance RF and microwave circuits. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2001, 24, 510-519.	1.4	96
224	High Q inductor add-on module in thick Cu/SiLK/sup TM/ single damascene. , 2001, , .		13
225	Frequency-dependent mutual resistance and inductance formulas for coupled IC interconnects on an Si-SiO ₂ substrate. <i>The Integration VLSI Journal</i> , 2001, 30, 133-141.	1.3	2
226	Simulations and measurements of capacitance in dielectric stacks and consequences for integration. <i>Microelectronic Engineering</i> , 2001, 55, 29-35.	1.1	4
227	Fast and accurate analysis of the multiconductor interconnects. <i>Microelectronic Engineering</i> , 2001, 55, 37-42.	1.1	9
228	On the modelling of multiconductor multilayer systems for interconnect applications. <i>Microelectronics Journal</i> , 2001, 32, 351-355.	1.1	6
229	The influence of the bumping height on the performance of flip-chipped CPW Lange couplers. <i>Microwave and Optical Technology Letters</i> , 2001, 29, 263-267.	0.9	0
230	Distributed inductance and resistance per-unit-length formulas for VLSI interconnects on silicon substrate. <i>Microwave and Optical Technology Letters</i> , 2001, 30, 302-304.	0.9	13
231	On the capacitance and conductance calculations of integrated-circuit interconnects with thick conductors. <i>Microwave and Optical Technology Letters</i> , 2001, 30, 335-339.	0.9	3
232	A direct Ku-band linear subharmonically pumped BPSK and I/Q vector modulator in multilayer thin-film MCM-D. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001, 49, 1374-1382.	2.9	9
233	Characteristic impedance extraction using calibration comparison. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001, 49, 2573-2579.	2.9	9
234	Novel approach for a design-oriented measurement-based fully scalable coplanar waveguide transmission line model. <i>IET Microwaves Antennas and Propagation</i> , 2001, 148, 227.	1.2	8

#	ARTICLE	IF	CITATIONS
235	Accurate transmission line characterisation on high and low-resistivity substrates. IET Microwaves Antennas and Propagation, 2001, 148, 285.	1.2	26
236	New approach for calculation of line parameters of IC interconnects. Microelectronics International, 2001, 18, 29-31.	0.4	0
237	New closed-form formula for frequency-dependent resistance and inductance of IC interconnects on silicon substrate. Journal of Micromechanics and Microengineering, 2001, 11, 283-286.	1.5	6
238	On the mutual capacitance and inductance of a shielded interconnect four-line system. Journal of Micromechanics and Microengineering, 2001, 11, 161-164.	1.5	1
239	Integration of CPW quadrature couplers in multilayer thin-film MCM-D. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 1770-1776.	2.9	15
240	Simple and accurate expressions for distributed mutual inductance and resistance of semiconducting interconnects. Applied Physics Letters, 2001, 79, 1378-1380.	1.5	1
241	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
242	HEMT parameter extraction combining optimization and direct parasitic extraction. International Journal of RF and Microwave Computer-Aided Engineering, 2000, 10, 81-90.	0.8	2
243	A new approach for the calculation of line capacitances of two-layer IC interconnects. Microwave and Optical Technology Letters, 2000, 27, 297-302.	0.9	7
244	Computation of capacitance matrix for integrated circuit interconnects using semi-analytic Green's function method. The Integration VLSI Journal, 2000, 30, 55-63.	1.3	5
245	Power and noise limitations of active circulators. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 316-319.	2.9	74
246	Integrated Wilkinson Power Dividers in C-, Ku- and Ka-Band in Multi-Layer Thin-Film MCM-D. , 2000, , .		7
247	Design of CPW Lange Couplers in Multi-Layer Thin-Film MCM-D. , 2000, , .		1
248	Characterising differences between measurement and calibration wafer in probe-tip calibrations. Electronics Letters, 1999, 35, 1087.	0.5	20
249	Accurate and Easily Extractable Equivalent Circuit Models for Slotline and NRD Resonators. , 1999, , .		0
250	Power Amplifier Linearisation Using a Straightforward Technology Independent Method Based on Vectorial Large-Signal Measurements. , 1999, , .		0
251	A new technique for in-fixture calibration using standards of constant length. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 1318-1320.	2.9	4
252	A simple error correction method for two-port transmission parameter measurement. , 1998, 8, 58-59.		30

#	ARTICLE	IF	CITATIONS
253	Two new measurement methods for explicit determination of complex permittivity. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 1614-1619.	2.9	68
254	Compensating Differences Between Measurement and Calibration Wafer in Probe Tip Calibrations - Deembedding of Line Parameters. , 1998, , .		5
255	Improved HEMT model for low phase-noise InP-based MMIC oscillators. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 1583-1585.	2.9	8
256	Simultaneous Power and Noise Optimization of Active Circulators. , 1998, , .		3
257	A Design-Oriented Scaleable MMIC Spiral Inductor Model. , 1998, , .		2
258	Frequency-Domain Simulation Tool Dedicated for Frequency-Domain Based Non-Linear Models. , 1998, , .		0
259	Optimal Design Parameters for High Performant InP HEMT Frequency Doublers. , 1998, , .		1
260	Effect of capture and escape phenomena in Monte Carlo technique on the simulation of the nonlinear characteristics in high electron mobility transistors. Journal of Applied Physics, 1997, 82, 6312-6318.	1.1	1
261	Direct Extraction of the Non-Linear Model for Two-Port Devices from Vectorial Non-Linear Network Analyzer Measurements. , 1997, , .		37
262	Complex permittivity measurement method based on asymmetry of reciprocal two-ports. Electronics Letters, 1996, 32, 1497.	0.5	30
263	Free space dyadic Green's function applied to the full-wave numerical analysis of planar transmission lines and dielectric waveguides. IET Microwaves Antennas and Propagation, 1996, 143, 328.	1.2	1
264	S-parameter measurement based quasistatic large-signal cold HEMT model for resistive mixer design. The International Executive, 1996, 6, 250-258.	0.2	21
265	DC, LF dispersion and hf characterisation of short time stressed inp based LM-HEMTS. Microelectronics Reliability, 1996, 36, 1911-1914.	0.9	5
266	S-Parameter Measurements of High-Temperature Superconducting and Normal Conducting Microwave Circuits at Cryogenic Temperatures. European Physical Journal Special Topics, 1996, 06, C3-397-C3-401.	0.2	0
267	Consistent small-signal and large-signal extraction techniques for heterojunction FET's. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 87-93.	2.9	42
268	Broadband active microstrip antenna design with the simplified real frequency technique. IEEE Transactions on Antennas and Propagation, 1994, 42, 1612-1619.	3.1	19
269	Broadband microstrip antenna design with the simplified real frequency technique. IEEE Transactions on Antennas and Propagation, 1994, 42, 129-136.	3.1	19
270	Microwave Design as a Study Method. , 1994, , .		1

#	ARTICLE	IF	CITATIONS
271	Introducing Telecommunications by System Design. , 1994, , .		2
272	Broadband active circularly polarized microstrip antennas. , 1993, , .		0
273	Noise figure measurement of receiving active microstrip antennas. Electronics Letters, 1993, 29, 1594.	0.5	12
274	Measurement technique for active microstrip antennas. Electronics Letters, 1993, 29, 1646.	0.5	10
275	Broadband circularly polarised microstrip antenna in two-sided structure with coaxial probe coupling. Electronics Letters, 1993, 29, 310.	0.5	3
276	Simple transmission line feed model for microstrip antennas in two-sided structure with coaxial probe coupling. Electronics Letters, 1992, 28, 1722.	0.5	4
277	Matching network design of microstrip antennas with simplified real frequency technique. Electronics Letters, 1991, 27, 2295.	0.5	7
278	Broadband active microstrip array elements. Electronics Letters, 1991, 27, 2378.	0.5	10
279	Current antenna research at K. U. Leuven. IEEE Antennas and Propagation Magazine, 1991, 33, 30-42.	1.2	3
280	Surface wave losses of rectangular microstrip antennas. Electronics Letters, 1989, 25, 696-697.	0.5	11
281	A transmission line model for arrays of rectangular microstrip antennas. Annales Des Telecommunications/Annals of Telecommunications, 1989, 44, 549-554.	1.6	1
282	Integrals for the mutual coupling between dipoles or between slots: with or without complex conjugate?. IEEE Transactions on Antennas and Propagation, 1988, 36, 1375-1381.	3.1	10
283	Characteristic impedance of stripline. Electronics Letters, 1987, 23, 930.	0.5	4
284	Optical links for installation of a GSM base transceiver station. , 0, , .		1
285	HEMT MMIC-circuits for millimetre-wave telecommunications systems. , 0, , .		1
286	A novel measurement technique for amplifier-type active antennas. , 0, , .		14
287	InP based heterostructure for medium power applications. , 0, , .		0
288	Scaleable non-linear and bias-dependent low-frequency noise model for improved InP HEMT based MMIC oscillator design. , 0, , .		2

#	ARTICLE	IF	CITATIONS
289	Optimization of nMOS high-frequency transistor characteristics for application in MMICs. , 0, , .		1
290	Evaluation of non-linear modelling techniques for MOSFETs based on vectorial large-signal measurements. , 0, , .		1
291	Accurate measurement and characterization up to 50 GHz of CPW-based integrated passives in microwave MCM-D. , 0, , .		13
292	Design of a direct Ku-band linear subharmonically pumped I/Q vector modulator in multi-layer thin-film MCM-D. , 0, , .		2
293	Design and characterization of CPW feedthroughs in multi-layer thin-film MCM-D. , 0, , .		2
294	Closed form inductance calculation for integrated spiral inductor compact modeling. , 0, , .		5
295	Design of distributed elements in Ku-band in coplanar-waveguide based MCM-D. , 0, , .		2
296	Wavelet packet based multicarrier modulation. , 0, , .		24
297	New analytic expressions for mutual inductance and resistance of coupled interconnects on lossy silicon substrate. , 0, , .		6
298	Accurate frequency-dependent formula for series line impedance of microstrip on lossy silicon substrate. , 0, , .		1
299	A direct Ku-band linear subharmonically pumped BPSK and I/Q vector modulator in multi-layer thin-film MCM-D. , 0, , .		1
300	Modelling and characterisation of the polymer stud grid array (PSGA) package: electrical, thermal and thermo-mechanical qualification. , 0, , .		3
301	High Q inductors and capacitors on Si substrate. , 0, , .		7
302	Admittance matrix calculations of on-chip interconnects on lossy silicon substrate using multilayer Green's function. , 0, , .		2
303	Distributed circuit models for near-CSP interconnects. , 0, , .		2
304	Simple and efficient approach for shunt admittance parameters calculations of VLSI on-chip interconnects on semiconducting substrate. , 0, , .		0
305	Accurate RF electrical characterisation of CSPs using MCM-D thin film technology. , 0, , .		4
306	Identifying error-box parameters from the twelve-term vector network analyzer error model. , 0, , .		3

#	ARTICLE	IF	CITATIONS
307	RF evaluation of low-cost leadless packages and development of distributed electrical models. , 0, , .		7
308	Modelling of the RF self-actuation of electrostatic RF-MEMS devices. , 0, , .		7
309	Extending on-die wiring hierarchy with wafer level packaging concepts. , 0, , .		5
310	Influence of measurement uncertainties on model uncertainties: practical case of a SiGe HBT. , 0, , .		5
311	Compact broadband resistance model for microstrip transmission lines. , 0, , .		5
312	High-resistivity silicon surface passivation for the thin-film MCM-D technology. , 0, , .		8
313	Integration of high-Q resonators with MCM-D for millimeter wave applications. , 0, , .		0
314	MEMS capacitive series switches: optimal test vehicles for the RF self-biasing phenomenon. , 0, , .		1
315	Design and fabrication of a surface micromachined frequency tunable film bulk acoustic resonator with an extended electrostatic tuning range. , 0, , .		2
316	60 GHz Si micromachined cavity resonator on MCM-D. , 0, , .		3
317	Accurate broadband parameter extraction methodology for s-parameter measurements. , 0, , .		2
318	Black Box Modelling at the Circuit level: Op-Amp as a Case Study. , 0, , .		2
319	Constant Impedance Scaling Paradigm for Scaling LC transmission lines. , 0, , .		3