

Youngwoo Kwon

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113
papers

1,347
citations

23
h-index

29
g-index

141
ext. papers

1,659
ext. citations

2.8
avg, IF

4.13
L-index

#	Paper	IF	Citations
113	V-band 2-b and 4-b low-loss and low-voltage distributed MEMS digital phase shifter using metal-air-metal capacitors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 2918-2923	4.1	55
112	Low-loss and compact V-band MEMS-based analog tunable bandpass filters. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 432-434	2.6	48
111	Microwave detection of metastasized breast cancer cells in the lymph node; potential application for sentinel lymphadenectomy. <i>Breast Cancer Research and Treatment</i> , 2004 , 86, 107-15	4.4	47
110	Low-loss analog and digital micromachined impedance tuners at the Ka-band. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 2394-2400	4.1	40
109	High-frequency microwave ablation method for enhanced cancer treatment with minimized collateral damage. <i>International Journal of Cancer</i> , 2011 , 129, 1970-8	7.5	38
108	Analysis and Design of Millimeter-Wave Power Amplifier Using Stacked-FET Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 691-702	4.1	34
107	A V-band micromachined 2-D beam-steering antenna driven by magnetic force with polymer-based hinges. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 325-331	4.1	34
106	A Non-Contact-Type RF MEMS Switch for 24-GHz Radar Applications. <i>Journal of Microelectromechanical Systems</i> , 2009 , 18, 163-173	2.5	32
105	A high-performance 40-85 GHz MMIC SPDT switch using FET-integrated transmission line structure. <i>IEEE Microwave and Wireless Components Letters</i> , 2003 , 13, 505-507	2.6	32
104	A Multiband Reconfigurable Power Amplifier for UMTS Handset Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 2532-2542	4.1	28
103	Tunable millimeter-wave filters using a coplanar waveguide and micromachined variable capacitors. <i>Journal of Micromechanics and Microengineering</i> , 2001 , 11, 706-712	2	28
102	Scalable Small-Signal Modeling of RF CMOS FET Based on 3-D EM-Based Extraction of Parasitic Effects and Its Application to Millimeter-Wave Amplifier Design. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 3345-3353	4.1	27
101	A new micromachined overlay CPW structure with low attenuation over wide impedance ranges and its application to low-pass filters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 1634-1639	4.1	27
100	Broadband CMOS Stacked RF Power Amplifier Using Reconfigurable Interstage Network for Wideband Envelope Tracking. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1174-1185	4.1	26
99	A Broadband GaN pHEMT Power Amplifier Using Non-Foster Matching. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4406-4414	4.1	26
98	Novel low-cost planar probes with broadside apertures for nondestructive dielectric measurement of biological materials at microwave frequencies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 134-143	4.1	26
97	A Miniaturized Broadband Multi-State Reflectometer Integrated on a Silicon MEMS Probe for Complex Permittivity Measurement of Biological Material. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 2205-2214	4.1	25

96	A fully integrated V-band PLL MMIC using 0.15- μm GaAs pHEMT technology. <i>IEEE Journal of Solid-State Circuits</i> , 2006 , 41, 1042-1050	5.5	25
95	Low-loss analog and digital reflection-type MEMS phase shifters with 1:3 bandwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 211-219	4.1	25
94	In-vivo measurements of the dielectric properties of breast carcinoma xenografted on nude mice. <i>International Journal of Cancer</i> , 2006 , 119, 593-8	7.5	24
93	1.6- and 3.3-W power-amplifier modules at 24 GHz using waveguide-based power-combining structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000 , 48, 2700-2708	4.1	24
92	A 60 GHz Broadband Stacked FET Power Amplifier Using 130 nm Metamorphic HEMTs. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 323-325	2.6	23
91	Millimeter-wave MEMS tunable low pass filter with reconfigurable series inductors and capacitive shunt switches. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 691-693	2.6	23
90	High-efficiency harmonic loaded oscillator with low bias using a nonlinear design approach. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1999 , 47, 1670-1679	4.1	23
89	A Broadband Logarithmic Power Detector in 0.13- μm CMOS. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 498-500	2.6	22
88	V-band high-order harmonic injection-locked frequency-divider MMICs with wide bandwidth and low-power dissipation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1891-1898	4.1	22
87	A V-Band Beam-Steering Antenna on a Thin-Film Substrate With a Flip-Chip Interconnection. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 287-289	2.6	21
86	V-band reflection-type phase shifters using micromachined CPW coupler and RF switches. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 808-814	2.5	21
85	A compact V-band 2-bit reflection-type MEMS phase shifter. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 324-326	2.6	21
84	A Millimeter-Wave System-on-Package Technology Using a Thin-Film Substrate With a Flip-Chip Interconnection. <i>IEEE Transactions on Advanced Packaging</i> , 2009 , 32, 101-108		20
83	Low-loss micromachined inverted overlay CPW lines with wide impedance ranges and inherent airbridge connection capability. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 59-61	2.6	20
82	Reconfigurable millimeter-wave filters using CPW-based periodic structures with novel multiple-contact MEMS switches. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 456-463	2.5	19
81	Intermodulation analysis of dual-gate FET mixers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 1544-1555	4.1	15
80	60 GHz, 26 W GaN HEMT compact power-combined non-uniform distributed amplifier. <i>Electronics Letters</i> , 2016 , 52, 2040-2042	1.1	15
79	A 60 GHz Cascode Variable-Gain Low-Noise Amplifier With Phase Compensation in a 0.13 μm CMOS Technology. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 372-374	2.6	14

78	A highly-integrated Doherty amplifier for CDMA handset applications using an active phase splitter. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 333-335	2.6	14
77	Magnetic Nanoparticle-Assisted Microwave Hyperthermia Using an Active Integrated Heat Applicator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2184-2197	4.1	13
76	X-to-K band broadband watt-level power amplifier using stacked-FET unit cells 2011 ,		13
75	A 18 GHz Broadband Stacked FET Power Amplifier Using 130 nm Metamorphic HEMTs. <i>IEEE Microwave and Wireless Components Letters</i> , 2009 , 19, 828-830	2.6	13
74	60 GHz broadband image rejection receiver using varactor tuning 2010 ,		12
73	A Ka-band MMIC oscillator stabilized with a micromachined cavity 1999 , 9, 360-362		12
72	\$W\$ -Band Multichannel FMCW Radar Sensor With Switching-TX Antennas. <i>IEEE Sensors Journal</i> , 2016 , 16, 5572-5582	4	11
71	Dynamic Stack-Controlled CMOS RF Power Amplifier for Wideband Envelope Tracking. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 3452-3464	4.1	11
70	V-band harmonic injection-locked frequency divider using cross-coupled FETs. <i>IEEE Microwave and Wireless Components Letters</i> , 2004 , 14, 457-459	2.6	11
69	Behavioral modeling of power amplifiers using fully recurrent neural networks 2005 ,		11
68	A 60-GHz GaN Reactively Matched Distributed Power Amplifier Using Simplified Bias Network and Reduced Thermal Coupling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 2638-2648	4.1	10
67	An Optimum Design Methodology for Planar-Type Coaxial Probes Applicable to Broad Temperature Permittivity Measurements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 684-692	4.1	10
66	Monolithic distributed amplifier with active control schemes for optimum gain and group-delay flatness, bandwidth, and stability. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 1101-1110	4.1	10
65	Optimization of magnetic hyperthermia effect for breast cancer stem cell therapy. <i>RSC Advances</i> , 2016 , 6, 107298-107304	3.7	9
64	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 4830-4836	8.9	9
63	A \$V\$ -Band Switched Beam-Forming Antenna Module Using Absorptive Switch Integrated With 4 Butler Matrix in 0.13- \$\mu\text{m}\$ CMOS. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 ,	4.1	9
62	A \$K\$ -Band Planar Active Integrated Bi-Directional Switching Heat Applicator With Uniform Heating Profile. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2581-2587	4.1	9
61	Planar type micromachined probe with low uncertainty at low frequencies. <i>Sensors and Actuators A: Physical</i> , 2007 , 139, 111-117	3.9	9

60	CPW MMIC coupler based on offset broadside air-gap coupling fabricated by standard airbridge processes. <i>Electronics Letters</i> , 2001 , 37, 358	1.1	9
59	Watt-level Ka- and Q-band MMIC power amplifiers operating at low voltages. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000 , 48, 891-897	4.1	9
58	Cold- and hot-switching lifetime characterizations of ohmic-contact RF MEMS switches. <i>IEICE Electronics Express</i> , 2008 , 5, 418-423	0.5	8
57	A V-band MMIC Self Oscillating Mixer Active Integrated Antenna Using a Push-Pull Patch Antenna 2006 ,		8
56	110 GHz broadband measurement of permittivity on human epidermis using 1 mm coaxial probe		8
55	A new "series-type" Doherty amplifier for miniaturization		8
54	A Fully-Integrated Penta-Band Tx Reconfigurable Power Amplifier with SOI CMOS Switches for Mobile Handset Applications. <i>ETRI Journal</i> , 2014 , 36, 214-223	1.4	7
53	A multi-band reconfigurable power amplifier for UMTS handset applications 2010 ,		7
52	Improved noise analysis of distributed preamplifier with cascode FET cells. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 361-371	4.1	7
51	V-Band Beam-Steering ASK Transmitter and Receiver Using BCB-Based System-on-Package Technology on Silicon Mother Board. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 619-621 ^{2.6}	2.6	6
50	A V-Band Parallel-Feedback Oscillator With a Micromachined Cavity Integrated on a Thin-Film Substrate. <i>IEEE Microwave and Wireless Components Letters</i> , 2009 , 19, 107-109	2.6	6
49	A 44-GHz monolithic waveguide plane-wave amplifier with improved unit cell design [using pHEMTs]. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 1237-1241	4.1	6
48	A mechanically reliable digital-type single crystalline silicon (SCS) RF MEMS variable capacitor. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1854-1863	2	6
47	Planar type probe with multiple-polarization response for in-vivo permittivity measurements of heterogeneous biological tissues. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 1-3	2.6	6
46	Bias-switching quasi-Doherty-type amplifier for CDMA handset applications		6
45	Novel compact low-loss millimeter-wave filters using micromachined overlay and inverted overlay coplanar waveguide transmission lines with defected ground structures. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2183-2191	2	5
44	Low conversion loss 94GHz CMOS resistive mixer. <i>Electronics Letters</i> , 2015 , 51, 1464-1466	1.1	4
43	A multi-mode multi-band reconfigurable power amplifier for low band GSM/UMTS handset applications 2013 ,		4

42	An absorptive single-pole four-throw switch using multiple-contact MEMS switches and its application to a monolithic millimeter-wave beam-forming network. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015024	2	4
41	A Linearity-Enhanced Compact Series-Type Doherty Amplifier Suitable for CDMA Handset Applications 2007 ,		4
40	V-band high-efficiency broadband power combiner and power-combining module using double antipodal finline transitions. <i>Electronics Letters</i> , 2003 , 39, 378	1.1	4
39	High-performance V-band cascode HEMT mixer and downconverter module. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 805-810	4.1	4
38	Compact low-loss monolithic CPW filters using air-gap overlay structures. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 328-330	2.6	4
37	Brain stimulation patterns emulating endogenous thalamocortical input to parvalbumin-expressing interneurons reduce nociception in mice. <i>Brain Stimulation</i> , 2018 , 11, 1151-1160	5.1	4
36	A single-chain multiband reconfigurable linear power amplifier in SOI CMOS 2015 ,		3
35	Ultra-Low-Power Series-Feedback Frequency Divider Using $0.15\text{-}\mu\text{m}$ GaAs pHEMTs at W-Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 634-636	2.6	3
34	Helix on Pad-Type Ultra Small-Size Power Amplifiers for WCDMA Handset Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2009 , 19, 825-827	2.6	3
33	A Two-Dimensional Beam Scanning Antenna Array Using Composite Right/Left Handed Microstrip Leaky-Wave Antennas. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		3
32	V-band Single-Platform Beam Steering Transmitters Using Micromachining Technology 2006 ,		3
31	A High-Temperature Capable Planar-type Coaxial Probe for Complex Permittivity Measurements Up to 40 GHz. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		3
30	MEMS-based compact dual-band bandpass filters with applications to wireless local area network. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1135-1142	2	3
29	Micromachined frequency-variable impedance tuners using resonant unit cells		3
28	Dual-purpose probe applicable to permittivity measurements and ablation of biological materials. <i>Electronics Letters</i> , 2018 , 54, 126-128	1.1	2
27	Scalable small-signal modeling of RF CMOS FET based on 3-D EM-based extraction of parasitic effects 2009 ,		2
26	Monolithic reconfigurable bandpass filter using single-pole double-throw RF MEMS switches. <i>IEICE Electronics Express</i> , 2008 , 5, 483-489	0.5	2
25	Hot-Switching Test of Non-Contact Type MEMS Switch. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		2

24	A 77 GHz Transceiver for Automotive Radar System Using a 120nm In0.4AlAs/In0.35GaAs Metamorphic HEMTs 2006 ,		2
23	A 1.6 W power amplifier module at 24 GHz using new waveguide-based power combining structures		2
22	High Performance Millimeter-Wave Image Reject Low-Noise Amplifier Using Inter-stage Tunable Resonators. <i>ETRI Journal</i> , 2014 , 36, 510-513	1.4	2
21	W-band power amplifier using broadband impedance-transforming coupled line couplers. <i>Microwave and Optical Technology Letters</i> , 2015 , 57, 803-806	1.2	1
20	WIDE dynamic range low noise amplifier module for Ka-band radar applications. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 1031-1035	1.2	1
19	A Ku-band miniaturized microwave ablation system integrated on a micromachined silicon applicator 2013 ,		1
18	A bi-directional multi-aperture planar coaxial applicator for low-power microwave hyperthermia 2009 ,		1
17	High-power reflection coefficient measurement of biological material applicable to microwave hyperthermia 2009 ,		1
16	A New Simultaneous Measuring Method of Complex Permittivity and Permeability using Two-Port Probe 2007 ,		1
15	A distributed amplifier with 12.5-dB gain and 82.5-GHz bandwidth using 0.1 μ m GaAs metamorphic HEMTs. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 2873-2875	1.2	1
14	A wideband MMIC-compatible balun using offset broadside air-gap coupling. <i>IEEE Microwave and Wireless Components Letters</i> , 2004 , 14, 92-93	2.6	1
13	A 5-17 GHz wideband reflection-type phase shifter using digitally operated capacitive MEMS switches		1
12	A V-band CPS distributed analog MEMS phase shifter		1
11	A 15-to-45 GHz low-loss analog reflection-type MEMS phase shifter		1
10	Millimeter-wave micromachined tunable filters		1
9	A 3-Voltage Actuated Micromachined RF Switch for Telecommunications Applications 2001 , 1512-1515		1
8	Two-state reconfigurable miniaturized low-pass filter using micromachined double-contact RF switches. <i>Sensors and Actuators A: Physical</i> , 2011 , 170, 172-179	3.9	0
7	Low-IF noise characteristics of W-band resistive and diode mixers. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 275-278	1.2	

- 6 Design of high-isolation Ka-band switch using coupled lines. *Microwave and Optical Technology Letters*, **2012**, 54, 2528-2530 1.2
- 5 K-band watt-level mHEMT power amplifier using quadruple-stacked transistors. *Microwave and Optical Technology Letters*, **2012**, 54, 2624-2626 1.2
- 4 A 94 GHz low-cost frequency source using a 47 GHz micromachined air-cavity oscillator and a doubler. *Microwave and Optical Technology Letters*, **2010**, 52, 239-241 1.2
- 3 Novel MMIC protection technique in plasma etching process for mechanically movable RF mems antenna. *Microwave and Optical Technology Letters*, **2008**, 50, 3089-3093 1.2
- 2 A physics-based GaAs PHEMT noise model for low drain bias operation using characteristic potential method. *IEEE Microwave and Wireless Components Letters*, **2002**, 12, 342-344 2.6
- 1 A linear LTE-advanced CMOS RF power amplifier with integrated phase linearizer. *Microwave and Optical Technology Letters*, **2017**, 59, 1119-1122 1.2