

# Youngwoo Kwon

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Dual-purpose probe applicable to permittivity measurements and ablation of biological materials. <i>Electronics Letters</i> , <b>2018</b> , 54, 126-128	1.1	2
112	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> , <b>2018</b> , 66, 2638-2648	4.1	10
111	Brain stimulation patterns emulating endogenous thalamocortical input to parvalbumin-expressing interneurons reduce nociception in mice. <i>Brain Stimulation</i> , <b>2018</b> , 11, 1151-1160	5.1	4
110	Low-IF noise characteristics of W-band resistive and diode mixers. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 275-278	1.2	
109	A linear LTE-advanced CMOS RF power amplifier with integrated phase linearizer. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 1119-1122	1.2	
108	Optimization of magnetic hyperthermia effect for breast cancer stem cell therapy. <i>RSC Advances</i> , <b>2016</b> , 6, 107298-107304	3.7	9
107	W-Band Multichannel FMCW Radar Sensor With Switching-TX Antennas. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 5572-5582	4	11
106	Magnetic Nanoparticle-Assisted Microwave Hyperthermia Using an Active Integrated Heat Applicator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 2184-2197	4.1	13
105	60-GHz, 26 W GaN HEMT compact power-combined non-uniform distributed amplifier. <i>Electronics Letters</i> , <b>2016</b> , 52, 2040-2042	1.1	15
104	Analysis and Design of Millimeter-Wave Power Amplifier Using Stacked-FET Structure. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 691-702	4.1	34
103	Broadband CMOS Stacked RF Power Amplifier Using Reconfigurable Interstage Network for Wideband Envelope Tracking. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 1174-1185	4.1	26
102	Low conversion loss 94-GHz CMOS resistive mixer. <i>Electronics Letters</i> , <b>2015</b> , 51, 1464-1466	1.1	4
101	W-band power amplifier using broadband impedance-transforming coupled line couplers. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 803-806	1.2	1
100	A single-chain multiband reconfigurable linear power amplifier in SOI CMOS <b>2015</b> ,		3
99	A Broadband GaN pHEMT Power Amplifier Using Non-Foster Matching. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 4406-4414	4.1	26
98	A Fully-Integrated Penta-Band Tx Reconfigurable Power Amplifier with SOI CMOS Switches for Mobile Handset Applications. <i>ETRI Journal</i> , <b>2014</b> , 36, 214-223	1.4	7
97	Dynamic Stack-Controlled CMOS RF Power Amplifier for Wideband Envelope Tracking. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 3452-3464	4.1	11

96	High Performance Millimeter-Wave Image Reject Low-Noise Amplifier Using Inter-stage Tunable Resonators. <i>ETRI Journal</i> , <b>2014</b> , 36, 510-513	1.4	2
95	A multi-mode multi-band reconfigurable power amplifier for low band GSM/UMTS handset applications <b>2013</b> ,		4
94	A Broadband Logarithmic Power Detector in 0.13- $\mu\text{m}$ CMOS. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 498-500	2.6	22
93	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> , <b>2013</b> , 61, 2205-2214	4.1	25
92	A Ku-band miniaturized microwave ablation system integrated on a micromachined silicon applicator <b>2013</b> ,		1
91	A Multiband Reconfigurable Power Amplifier for UMTS Handset Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 2532-2542	4.1	28
90	Design of high-isolation Ka-band switch using coupled lines. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 2528-2530	1.2	
89	K-band watt-level mHEMT power amplifier using quadruple-stacked transistors. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 2624-2626	1.2	
88	A 60 GHz Cascode Variable-Gain Low-Noise Amplifier With Phase Compensation in a 0.13 $\mu\text{m}$ CMOS Technology. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2012</b> , 22, 372-374	2.6	14
87	WIDE dynamic range low noise amplifier module for Ka-band radar applications. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 1031-1035	1.2	1
86	A 60 GHz Broadband Stacked FET Power Amplifier Using 130 nm Metamorphic HEMTs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2011</b> , 21, 323-325	2.6	23
85	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> , <b>2011</b> , 21, 619-621	2.6	6
84	X-to-K band broadband watt-level power amplifier using stacked-FET unit cells <b>2011</b> ,		13
83	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 4830-4836	8.9	9
82	Two-state reconfigurable miniaturized low-pass filter using micromachined double-contact RF switches. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 170, 172-179	3.9	0
81	High-frequency microwave ablation method for enhanced cancer treatment with minimized collateral damage. <i>International Journal of Cancer</i> , <b>2011</b> , 129, 1970-8	7.5	38
80	A multi-band reconfigurable power amplifier for UMTS handset applications <b>2010</b> ,		7
79	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> , <b>2010</b> ,	4.1	9

78	60 GHz broadband image rejection receiver using varactor tuning <b>2010</b> ,		12
77	Ultra-Low-Power Series-Feedback Frequency Divider Using 0.15- $\mu\text{m}$ GaAs pHEMTs at W-Band. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 634-636	2.6	3
76	A 94 GHz low-cost frequency source using a 47 GHz micromachined air-cavity oscillator and a doubler. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 239-241	1.2	
75	Helix on Pad-Type Ultra Small-Size Power Amplifiers for WCDMA Handset Applications. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2009</b> , 19, 825-827	2.6	3
74	A K <sub>a</sub> -Band Planar Active Integrated Bi-Directional Switching Heat Applicator With Uniform Heating Profile. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 2581-2587	4.1	9
73	A bi-directional multi-aperture planar coaxial applicator for low-power microwave hyperthermia <b>2009</b> ,		1
72	A 18 GHz Broadband Stacked FET Power Amplifier Using 130 nm Metamorphic HEMTs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2009</b> , 19, 828-830	2.6	13
71	High-power reflection coefficient measurement of biological material applicable to microwave hyperthermia <b>2009</b> ,		1
70	A V-Band Parallel-Feedback Oscillator With a Micromachined Cavity Integrated on a Thin-Film Substrate. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2009</b> , 19, 107-109	2.6	6
69	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> , <b>2009</b> , 57, 3345-3353	4.1	27
68	A Non-Contact-Type RF MEMS Switch for 24-GHz Radar Applications. <i>Journal of Microelectromechanical Systems</i> , <b>2009</b> , 18, 163-173	2.5	32
67	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> , <b>2009</b> , 19, 015024	2	4
66	Scalable small-signal modeling of RF CMOS FET based on 3-D EM-based extraction of parasitic effects <b>2009</b> ,		2
65	A Millimeter-Wave System-on-Package Technology Using a Thin-Film Substrate With a Flip-Chip Interconnection. <i>IEEE Transactions on Advanced Packaging</i> , <b>2009</b> , 32, 101-108		20
64	An Optimum Design Methodology for Planar-Type Coaxial Probes Applicable to Broad Temperature Permittivity Measurements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 684-692	4.1	10
63	A V-Band Beam-Steering Antenna on a Thin-Film Substrate With a Flip-Chip Interconnection. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 287-289	2.6	21
62	Monolithic reconfigurable bandpass filter using single-pole double-throw RF MEMS switches. <i>IEICE Electronics Express</i> , <b>2008</b> , 5, 483-489	0.5	2
61	Cold- and hot-switching lifetime characterizations of ohmic-contact RF MEMS switches. <i>IEICE Electronics Express</i> , <b>2008</b> , 5, 418-423	0.5	8

60	Novel MMIC protection technique in plasma etching process for mechanically movable RF mems antenna. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 3089-3093	1.2	
59	A New Simultaneous Measuring Method of Complex Permittivity and Permeability using Two-Port Probe <b>2007</b> ,		1
58	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> , <b>2007</b> ,		3
57	A distributed amplifier with 12.5-dB gain and 82.5-GHz bandwidth using 0.1 $\mu\text{m}$ GaAs metamorphic HEMTs. <i>Microwave and Optical Technology Letters</i> , <b>2007</b> , 49, 2873-2875	1.2	1
56	Planar type micromachined probe with low uncertainty at low frequencies. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 139, 111-117	3.9	9
55	Hot-Switching Test of Non-Contact Type MEMS Switch. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , <b>2007</b> ,		2
54	A Linearity-Enhanced Compact Series-Type Doherty Amplifier Suitable for CDMA Handset Applications <b>2007</b> ,		4
53	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> , <b>2007</b> ,		3
52	In-vivo measurements of the dielectric properties of breast carcinoma xenografted on nude mice. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 593-8	7.5	24
51	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> , <b>2006</b> , 16, 2183-2191	2	5
50	V-band Single-Platform Beam Steering Transmitters Using Micromachining Technology <b>2006</b> ,		3
49	MEMS-based compact dual-band bandpass filters with applications to wireless local area network. <i>Journal of Micromechanics and Microengineering</i> , <b>2006</b> , 16, 1135-1142	2	3
48	A 77 GHz Transceiver for Automotive Radar System Using a 120nm In <sub>0.4</sub> AlAs/In <sub>0.35</sub> GaAs Metamorphic HEMTs <b>2006</b> ,		2
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> , <b>2006</b> , 16, 1-3	2.6	6
46	A V-band MMIC Self Oscillating Mixer Active Integrated Antenna Using a Push-Pull Patch Antenna <b>2006</b> ,		8
45	A fully integrated V-band PLL MMIC using 0.15- $\mu\text{m}$ GaAs pHEMT technology. <i>IEEE Journal of Solid-State Circuits</i> , <b>2006</b> , 41, 1042-1050	5.5	25
44	A highly-integrated Doherty amplifier for CDMA handset applications using an active phase splitter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2005</b> , 15, 333-335	2.6	14
43	Millimeter-wave MEMS tunable low pass filter with reconfigurable series inductors and capacitive shunt switches. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2005</b> , 15, 691-693	2.6	23

42	A mechanically reliable digital-type single crystalline silicon (SCS) RF MEMS variable capacitor. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, 1854-1863	2	6
41	Reconfigurable millimeter-wave filters using CPW-based periodic structures with novel multiple-contact MEMS switches. <i>Journal of Microelectromechanical Systems</i> , <b>2005</b> , 14, 456-463	2.5	19
40	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> , <b>2005</b> , 53, 134-143	4.1	26
39	Improved noise analysis of distributed preamplifier with cascode FET cells. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 361-371	4.1	7
38	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> , <b>2005</b> , 53, 1891-1898	4.1	22
37	Behavioral modeling of power amplifiers using fully recurrent neural networks <b>2005</b> ,		11
36	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> , <b>2004</b> , 52, 1101-1110	4.1	10
35	Microwave detection of metastasized breast cancer cells in the lymph node; potential application for sentinel lymphadenectomy. <i>Breast Cancer Research and Treatment</i> , <b>2004</b> , 86, 107-115	4.4	47
34	A wideband MMIC-compatible balun using offset broadside air-gap coupling. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 92-93	2.6	1
33	V-band harmonic injection-locked frequency divider using cross-coupled FETs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2004</b> , 14, 457-459	2.6	11
32	Low-loss analog and digital reflection-type MEMS phase shifters with 1:3 bandwidth. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2004</b> , 52, 211-219	4.1	25
31	V-band high-efficiency broadband power combiner and power-combining module using double antipodal finline transitions. <i>Electronics Letters</i> , <b>2003</b> , 39, 378	1.1	4
30	High-performance V-band cascode HEMT mixer and downconverter module. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 805-810	4.1	4
29	A high-performance 40-85 GHz MMIC SPDT switch using FET-integrated transmission line structure. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2003</b> , 13, 505-507	2.6	32
28	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> , <b>2003</b> , 51, 325-331	4.1	34
27	Intermodulation analysis of dual-gate FET mixers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2002</b> , 50, 1544-1555	4.1	15
26	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> , <b>2002</b> , 50, 2918-2923	4.1	55
25	Low-loss and compact V-band MEMS-based analog tunable bandpass filters. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2002</b> , 12, 432-434	2.6	48

24	V-band reflection-type phase shifters using micromachined CPW coupler and RF switches. <i>Journal of Microelectromechanical Systems</i> , <b>2002</b> , 11, 808-814	2.5	21
23	A physics-based GaAs PHEMT noise model for low drain bias operation using characteristic potential method. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2002</b> , 12, 342-344	2.6	
22	A compact V-band 2-bit reflection-type MEMS phase shifter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2002</b> , 12, 324-326	2.6	21
21	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> , <b>2001</b> , 49, 1634-1639	4.1	27
20	Low-loss analog and digital micromachined impedance tuners at the Ka-band. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2001</b> , 49, 2394-2400	4.1	40
19	CPW MMIC coupler based on offset broadside air-gap coupling fabricated by standard airbridge processes. <i>Electronics Letters</i> , <b>2001</b> , 37, 358	1.1	9
18	Compact low-loss monolithic CPW filters using air-gap overlay structures. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2001</b> , 11, 328-330	2.6	4
17	Low-loss micromachined inverted overlay CPW lines with wide impedance ranges and inherent airbridge connection capability. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2001</b> , 11, 59-61	2.6	20
16	Tunable millimeter-wave filters using a coplanar waveguide and micromachined variable capacitors. <i>Journal of Micromechanics and Microengineering</i> , <b>2001</b> , 11, 706-712	2	28
15	A 3-Voltage Actuated Micromachined RF Switch for Telecommunications Applications <b>2001</b> , 1512-1515		1
14	Watt-level Ka- and Q-band MMIC power amplifiers operating at low voltages. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2000</b> , 48, 891-897	4.1	9
13	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> , <b>2000</b> , 48, 2700-2708	4.1	24
12	A Ka-band MMIC oscillator stabilized with a micromachined cavity <b>1999</b> , 9, 360-362		12
11	High-efficiency harmonic loaded oscillator with low bias using a nonlinear design approach. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1999</b> , 47, 1670-1679	4.1	23
10	A 44-GHz monolithic waveguide plane-wave amplifier with improved unit cell design [using pHEMTs]. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1998</b> , 46, 1237-1241	4.1	6
9	110 GHz broadband measurement of permittivity on human epidermis using 1 mm coaxial probe		8
8	A 5-17 GHz wideband reflection-type phase shifter using digitally operated capacitive MEMS switches		1
7	Bias-switching quasi-Doherty-type amplifier for CDMA handset applications		6

6	A V-band CPS distributed analog MEMS phase shifter	1
5	A 15-to-45 GHz low-loss analog reflection-type MEMS phase shifter	1
4	A new "series-type" Doherty amplifier for miniaturization	8
3	A 1.6 W power amplifier module at 24 GHz using new waveguide-based power combining structures	2
2	Micromachined frequency-variable impedance tuners using resonant unit cells	3
1	Millimeter-wave micromachined tunable filters	1