Gabriel M Rebeiz

List of Publications by Year
in descending order

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246 papers	11,705 citations	23567 58 h-index	46799 89 g-index
249 all docs	249 docs citations	249 times ranked	5357 citing authors

#	Article	IF	Citations
1	0.13-mum CMOS Phase Shifters for X-, Ku-, and K-Band Phased Arrays. IEEE Journal of Solid-State Circuits, 2007, 42, 2535-2546.	5.4	330
2	A Low-Cost Scalable 32-Element 28-GHz Phased Array Transceiver for 5G Communication Links Based on a <inline-formula> <tex-math notation="LaTeX">$2imes 2$ </tex-math> </inline-formula> Beamformer Flip-Chip Unit Cell. IEEE Journal of Solid-State Circuits, 2018, 53, 1260-1274.	5.4	315
3	Tuning in to RF MEMS. IEEE Microwave Magazine, 2009, 10, 55-72.	0.8	267
4	A 77â€“81-GHz 16-Element Phased-Array Receiver With $pm {hbox{50}}^{circ}$ Beam Scanning for Advanced Automotive Radars. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2823-2832.	4.6	241
5	A 64-Element 28-GHz Phased-Array Transceiver With 52-dBm EIRP and 8â€“12-Gb/s 5G Link at 300 Meters Without Any Calibration. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5796-5811.	4.6	220
6	Single-Ended and Differential Ka-Band BiCMOS Phased Array Front-Ends. IEEE Journal of Solid-State Circuits, 2008, 43, 2239-2250.	5.4	178
7	Design and Characterization of W-Band SiGe RFICs for Passive Millimeter-Wave Imaging. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1420-1430.	4.6	176
8	Low-Loss Two-Pole Tunable Filters With Three Different Predefined Bandwidth Characteristics. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1137-1148.	4.6	157
9	A 90 - 100-GHz 4 x 4 SiGe BiCMOS Polarimetric Transmit/Receive Phased Array With Simultaneous Receive-Beams Capabilities. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3099-3114.	4.6	157
10	An Improved Wideband All-Pass I/Q Network for Millimeter-Wave Phase Shifters. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3431-3439.	4.6	148
11	High-Gain Yagi-Uda Antennas for Millimeter-Wave Switched-Beam Systems. IEEE Transactions on Antennas and Propagation, 2009, 57, 3672-3676.	5.1	145
12	An X- and Ku-Band 8-Element Phased-Array Receiver in 0.18-$mu{hbox{m}}$ SiGe BiCMOS Technology. IEEE Journal of Solid-State Circuits, 2008, 43, 1360-1371.	5.4	144
13	Single and Four-Element Ka-Band Transmit/Receive Phased-Array Silicon RFICs With 5-bit Amplitude and Phase Control. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3534-3543.	4.6	138
14	A Millimeter-Wave (40â€“45 GHz) 16-Element Phased-Array Transmitter in 0.18-mum SiGe BiCMOS Technology. IEEE Journal of Solid-State Circuits, 2009, 44, 1498-1509.	5.4	132
15	60-GHz 64- and 256-Elements Wafer-Scale Phased-Array Transmitters Using Full-Reticle and Subreticle Stitching Techniques. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4701-4719.	4.6	132
16	An 8$,imes,$8 Butler Matrix in 0.13-$mu{hbox {m}}$ CMOS for 5â€“6-GHz Multibeam Applications. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 295-301.	4.6	130
17	High-Efficiency Angled-Dipole Antennas for Millimeter-Wave Phased Array Applications. IEEE Transactions on Antennas and Propagation, 2008, 56, 3136-3142.	5.1	123
18	W-Band Amplifiers With 6-dB Noise Figure and Milliwatt-Level 170â€“200-GHz Doublers in 45-nm CMOS. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 692-701.	4.6	112

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19	A Tunable Three-Pole 1.5â€“2.2-GHz Bandpass Filter With Bandwidth and Transmission Zero Control. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2872-2878.	4.6	110
20	A 44â€“46-GHz 16-Element SiGe BiCMOS High-Linearity Transmit/Receive Phased Array. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 730-742.	4.6	110
21	A Phased Array RFIC With Built-In Self-Test Capabilities. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 139-148.	4.6	110
22	High-Q RF-MEMS 4â€“6-GHz Tunable Evanescent-Mode Cavity Filter. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 381-389.	4.6	105
23	A 108â€“114 GHz 4$,imes,$4 Wafer-Scale Phased Array Transmitter With High-Efficiency On-Chip Antennas. IEEE Journal of Solid-State Circuits, 2013, 48, 2041-2055.	5.4	102
24	A Near-Zero-Power Wake-Up Receiver Achieving â^'69-dBm Sensitivity. IEEE Journal of Solid-State Circuits, 2018, 53, 1640-1652.	5.4	101
25	Single- and Dual-Polarized Tunable Slot-Ring Antennas. IEEE Transactions on Antennas and Propagation, 2009, 57, 19-26.	5.1	100
26	A High-Reliability High-Linearity High-Power RF MEMS Metal-Contact Switch for DCâ€“40-GHz Applications. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3096-3112.	4.6	100
27	Corrugated Microstrip Coupled Lines for Constant Absolute Bandwidth Tunable Filters. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 956-963.	4.6	97
28	A 22â€“24 GHz 4-Element CMOS Phased Array With On-Chip Coupling Characterization. IEEE Journal of Solid-State Circuits, 2008, 43, 2134-2143.	5.4	95
29	A 0.32 THz SiGe 4x4 Imaging Array Using High-Efficiency On-Chip Antennas. IEEE Journal of Solid-State Circuits, 2013, 48, 2056-2066.	5.4	95
30	High-Performance 1.5â€“2.5-GHz RF-MEMS Tunable Filters for Wireless Applications. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1629-1637.	4.6	94
31	X- and K-Band SiGe HBT LNAs With 1.2- and 2.2-dB Mean Noise Figures. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2381-2389.	4.6	93
32	An Eight-Element 370â€“410-GHz Phased-Array Transmitter in 45-nm CMOS SOI With Peak EIRP of 8â€“8.5 dBm. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4241-4249.	4.6	88
33	A 76â€“84-GHz 16-Element Phased-Array Receiver With a Chip-Level Built-In Self-Test System. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3083-3098.	4.6	87
34	Ka-Band Low-Loss and High-Isolation Switch Design in 0.13-$mu{hbox {m}}$ CMOS. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1364-1371.	4.6	86
35	Two- and Four-Pole Tunable 0.7â€“1.1-GHz Bandpass-to-Bandstop Filters With Bandwidth Control. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 457-463.	4.6	85
36	A 10â€“50-GHz CMOS Distributed Step Attenuator With Low Loss and Low Phase Imbalance. IEEE Journal of Solid-State Circuits, 2007, 42, 2547-2554.	5.4	84

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37	Miniature Four-Way and Two-Way 24 GHz Wilkinson Power Dividers in 0.13 mum CMOS. IEEE Microwave and Wireless Components Letters, 2007, 17, 658-660.	3.2	83
38	Tunable 1.55â€“2.1 GHz 4-Pole Elliptic Bandpass Filter With Bandwidth Control and ${> 50}~{hbox {dB}}$ Rejection for Wireless Systems. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 117-124.	4.6	81
39	45-nm CMOS SOI Technology Characterization for Millimeter-Wave Applications. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1301-1311.	4.6	80
40	Differentially-Fed Millimeter-Wave Yagi-Uda Antennas With Folded Dipole Feed. IEEE Transactions on Antennas and Propagation, 2010, 58, 966-969.	5.1	79
41	High-Reliability Miniature RF-MEMS Switched Capacitors. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 971-981.	4.6	78
42	A 65 GHz LNA/Phase Shifter With 4.3 dB NF Using 45 nm CMOS SOI. IEEE Microwave and Wireless Components Letters, 2012, 22, 530-532.	3.2	77
43	Millimeter-Wave Wafer-Scale Silicon BiCMOS Power Amplifiers Using Free-Space Power Combining. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 954-965.	4.6	76
44	A 5G 28-GHz Common-Leg T/R Front-End in 45-nm CMOS SOI With 3.7-dB NF and â^'30-dBc EVM With 64-QAM/500-MBaud Modulation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 318-331.	4.6	76
45	A Two-Pole Two-Zero Tunable Filter With Improved Linearity. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 830-839.	4.6	75
46	Compact Low-Loss Tunable X-Band Bandstop Filter With Miniature RF-MEMS Switches. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1887-1895.	4.6	74
47	A 0.39â€“0.44 THz 2x4 Amplifier-Quadrupler Array With Peak EIRP of 3â€“4 dBm. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4483-4491.	4.6	74
48	Miniature MEMS Switches for RF Applications. Journal of Microelectromechanical Systems, 2011, 20, 1324-1335.	2.5	72
49	A High-Linearity 76â€“85-GHz 16-Element 8-Transmit/8-Receive Phased-Array Chip With High Isolation and Flip-Chip Packaging. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2337-2356.	4.6	72
50	A Quasi Elliptic Function 1.75â€“2.25 GHz 3-Pole Bandpass Filter With Bandwidth Control. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 244-249.	4.6	71
51	A 110â€“134-GHz SiGe Amplifier With Peak Output Power of 100â€“120 mW. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2990-3000.	4.6	68
52	2 $imes$ 64-Element Dual-Polarized Dual-Beam Single-Aperture 28-GHz Phased Array With 2 $imes$ 30 Gb/s Links for 5G Polarization MIMO. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3872-3884.	4.6	68
53	An Eight-Element 2â€“16-GHz Programmable Phased Array Receiver With One, Two, or Four Simultaneous Beams in SiGe BiCMOS. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4585-4597.	4.6	67
54	A 25â€“75-MHz RF MEMS Tunable Filter. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2399-2405.	4.6	65

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55	Low-Loss 4â€“6-GHz Tunable Filter With 3-Bit High-Q Orthogonal Bias RF-MEMS Capacitance Network. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2348-2355.	4.6	64
56	A Low-Power BiCMOS 4-Element Phased Array Receiver for 76â€“84 GHz Radars and Communication Systems. IEEE Journal of Solid-State Circuits, 2012, 47, 359-367.	5.4	64
57	High-Efficiency Elliptical Slot Antennas With Quartz Superstrates for Silicon RFICs. IEEE Transactions on Antennas and Propagation, 2012, 60, 5010-5020.	5.1	64
58	140â€“220 GHz SPST and SPDT Switches in 45 nm CMOS SOI. IEEE Microwave and Wireless Components Letters, 2012, 22, 412-414.	3.2	63
59	A 2-Bit, 24 dBm, Millimeter-Wave SOI CMOS Power-DAC Cell for Watt-Level High-Efficiency, Fully Digital m-ary QAM Transmitters. IEEE Journal of Solid-State Circuits, 2013, 48, 1126-1137.	5.4	59
60	Random Feeding Networks for Reducing the Number of Phase Shifters in Limited-Scan Arrays. IEEE Transactions on Antennas and Propagation, 2016, 64, 4648-4658.	5.1	58
61	Three-Pole 1.3â€“2.4-GHz Diplexer and 1.1â€“2.45-GHz Dual-Band Filter With Common Resonator Topology and Flexible Tuning Capabilities. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3613-3624.	4.6	55
62	A 24-43 GHz LNA with 3.1-3.7 dB Noise Figure and Embedded 3-Pole Elliptic High-Pass Response for 5G Applications in 22 nm FDSOI. , 2019, , .		53
63	A 22â€“44-GHz Phased-Array Receive Beamformer in 45-nm CMOS SOI for 5G Applications With 3â€“3.6-dB NF. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4765-4774.	4.6	53
64	Tunable 1.25â€“2.1-GHz 4-Pole Bandpass Filter With Intrinsic Transmission Zero Tuning. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1569-1578.	4.6	52
65	A Ku-Band Two-Antenna Four-Simultaneous Beams SiGe BiCMOS Phased Array Receiver. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 771-780.	4.6	51
66	Lumped-Element Fully Tunable Bandstop Filters for Cognitive Radio Applications. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2461-2468.	4.6	50
67	A High-Linearity X-Band Four-Element Phased-Array Receiver: CMOS Chip and Packaging. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2064-2072.	4.6	50
68	Dual-Polarized Sinuous Antennas on Extended Hemispherical Silicon Lenses. IEEE Transactions on Antennas and Propagation, 2012, 60, 4082-4091.	5.1	50
69	A 90â€“100-GHz Phased-Array Transmit/Receive Silicon RFIC Module With Built-In Self-Test. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3774-3782.	4.6	48
70	Wideband 23.5â€“29.5-GHz Phased Arrays for Multistandard 5G Applications and Carrier Aggregation. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 235-247.	4.6	48
71	On-Chip Slot-Ring and High-Gain Horn Antennas for Millimeter-Wave Wafer-Scale Silicon Systems. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1963-1972.	4.6	47
72	Bandpass-to-Bandstop Reconfigurable Tunable Filters with Frequency and Bandwidth Controls. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2288-2297.	4.6	47

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73	A 4-18-GHz reconfigurable RF MEMS matching network for power amplifier applications. International Journal of RF and Microwave Computer-Aided Engineering, 2004, 14, 356-372.	1.2	46
74	RF MEMS Metal-Contact Switches With mN-Contact and Restoring Forces and Low Process Sensitivity. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1230-1237.	4.6	46
75	A High-Power Packaged Four-Element X-Band Phased-Array Transmitter in ${hbox{0.13-}}mu{hbox {m}}$ CMOS for Radar and Communication Systems. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3060-3071.	4.6	46
76	A 37â€“42-GHz 8 Ã— 8 Phased-Array With 48â€“51-dBm EIRP, 64â€“QAM 30-Gb/s Data Rates, and EVM Analysis Versus Channel RMS Errors. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4753-4764.	4.6	45
77	Ka-Band SiGe HBT Low Noise Amplifier Design for Simultaneous Noise and Input Power Matching. IEEE Microwave and Wireless Components Letters, 2007, 17, 891-893.	3.2	44
78	0.7â€“1.0-GHz Reconfigurable Bandpass-to-Bandstop Filter With Selectable 2- and 4-Pole Responses. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2626-2632.	4.6	44
79	A High-Power Temperature-Stable Electrostatic RF MEMS Capacitive Switch Based on a Thermal Buckle-Beam Design. Journal of Microelectromechanical Systems, 2010, 19, 816-826.	2.5	43
80	High-Q 4â€“6-GHz Suspended Stripline RF MEMS Tunable Filter With Bandwidth Control. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2469-2476.	4.6	42
81	A Q-Band Four-Element Phased-Array Front-End Receiver With Integrated Wilkinson Power Combiners in 0.18-$mu{{hbox{m}}}$ SiGe BiCMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2046-2053.	4.6	39
82	Differential Microstrip and Slot-Ring Antennas for Millimeter-Wave Silicon Systems. IEEE Transactions on Antennas and Propagation, 2012, 60, 2611-2619.	5.1	39
83	Ka-Band SiGe HBT Low Phase Imbalance Differential 3-Bit Variable Gain LNA. IEEE Microwave and Wireless Components Letters, 2008, 18, 272-274.	3.2	38
84	0.73â€“1.03-GHz Tunable Bandpass Filter With a Reconfigurable 2/3/4-Pole Response. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 290-296.	4.6	38
85	Compact High-Power SPST and SP4T RF MEMS Metal-Contact Switches. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 297-305.	4.6	38
86	A Simple and Effective Method for 1.9â€“3.4-GHz Tunable Diplexer With Compact Size and Constant Fractional Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 436-449.	4.6	38
87	A 70â€“80-GHz SiGe Amplifier With Peak Output Power of 27.3 dBm. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2039-2049.	4.6	37
88	Silicon RFICs for phased arrays. IEEE Microwave Magazine, 2009, 10, 96-103.	0.8	36
89	A 1024-Element Ku-Band SATCOM Dual-Polarized Receiver With >10-dB/K G/T and Embedded Transmit Rejection Filter. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3484-3495.	4.6	36
90	A 1.4â€“2.3-GHz Tunable Diplexer Based on Reconfigurable Matching Networks. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1595-1602.	4.6	35

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91	Limited Scan-Angle Phased Arrays Using Randomly Grouped Subarrays and Reduced Number of Phase Shifters. IEEE Transactions on Antennas and Propagation, 2020, 68, 70-80.	5.1	35
92	A 40-50-GHz SiGe 1 : 8 differential power divider using shielded broadside-coupled striplines. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1575-1581.	4.6	34
93	A 1024-Element Ku-Band SATCOM Phased-Array Transmitter With 45-dBW Single-Polarization EIRP. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4157-4168.	4.6	34
94	Low Complexity 54â€“63-GHz Transmit/Receive 64- and 128-element 2-D-Scanning Phased-Arrays on Multilayer Organic Substrates With 64-QAM 30-Gbps Data Rates. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5268-5281.	4.6	33
95	Higher Order Cochlea-Like Channelizing Filters. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1675-1683.	4.6	32
96	A Shallow Varactor-Tuned Cavity-Backed Slot Antenna With a 1.9:1 Tuning Range. IEEE Transactions on Antennas and Propagation, 2010, 58, 633-639.	5.1	32
97	A 3 G-Bit/s W-band SiGe ASK receiver with a high-efficiency on-chip electromagnetically-coupled antenna. , 2010, , .		31
98	A SiGe Multiplier Array With Output Power of 5â€“8 dBm at 200â€“230 GHz. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2050-2058.	4.6	31
99	An Electronically-Scanned 1.8â€“2.1 GHz Base-Station Antenna Using Packaged High-Reliability RF MEMS Phase Shifters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 979-985.	4.6	30
100	A 0.97â€“1.53-GHz Tunable Four-Pole Bandpass Filter With Four Transmission Zeroes. IEEE Microwave and Wireless Components Letters, 2019, 29, 195-197.	3.2	30
101	Thin-Film Aluminum RF MEMS Switched Capacitors With Stress Tolerance and Temperature Stability. Journal of Microelectromechanical Systems, 2011, 20, 193-203.	2.5	28
102	A 200-245 GHz Balanced Frequency Doubler with Peak Output Power of +2 dBm. , 2013, , .		28
103	28 GHz 5G-Based Phased-Arrays for UAV Detection and Automotive Traffic-Monitoring Radars. , 2018, , .		28
104	A <inline-formula> <tex-math notation="LaTeX">${D}$ </tex-math> </inline-formula>-Band Digital Transmitter with 64-QAM and OFDM Free-Space Constellation Formation. IEEE Journal of Solid-State Circuits, 2018, 53, 2012-2022.	5.4	28
105	RF MEMS impedance tuners for 6â€“24 GHz applications. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 265-278.	1.2	27
106	High-Reliability RF-MEMS Switched Capacitors With Digital and Analog Tuning Characteristics. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2692-2701.	4.6	27
107	A 60 GHz single-chip 256-element wafer-scale phased array with EIRP of 45 dBm using sub-reticle stitching. , 2015, , .		26
108	Cochlea-Based RF Channelizing Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 969-979.	5.4	25

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109	A 4-channel 24–27 GHz CMOS differential phased-array receiver. , 2009, , .		25
110	RF MEMS Capacitive Switches for Wide Temperature Range Applications Using a Standard Thin-Film Process. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1746-1752.	4.6	25
111	Tunable 4-Pole Noncontiguous 0.7â€“2.1-GHz Bandpass Filters Based on Dual Zero-Value Couplings. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1579-1586.	4.6	25
112	Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2364-2374.	4.6	25
113	A High Power Stress-Gradient Resilient RF MEMS Capacitive Switch. Journal of Microelectromechanical Systems, 2015, 24, 599-607.	2.5	25
114	${W}$ -Band Direct-Modulation >20-Gb/s Transmit and Receive Building Blocks in 32-nm SOI CMOS. IEEE Journal of Solid-State Circuits, 2017, 52, 2277-2291.	5.4	25
115	A Very Low Phase-Noise Transformer-Coupled Oscillator and PLL for 5G Communications in 0.12 mu m SiGe BiCMOS. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1529-1541.	4.6	25
116	A High-Power 24â€“40-GHz Transmitâ€“Receive Front End for Phased Arrays in 45-nm CMOS SOI. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4775-4786.	4.6	25
117	A 256-Element Ku-Band Polarization Agile SATCOM Transmit Phased Array With Wide-Scan Angles, Low Cross Polarization, Deep Nulls, and 36.5-dBW EIRP per Polarization. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2594-2608.	4.6	25
118	RF MEMS, BST, and GaAs varactor system-level response in complex modulation systems. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 86-98.	1.2	24
119	Tunable 500â€“1200-MHz Dual-Band and Wide Bandwidth Notch Filters Using RF Transformers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1854-1862.	4.6	24
120	A 28 GHz transceiver chip for 5G beamforming data links in SiGe BiCMOS. , 2017, , .		24
121	Third-Order Intermodulation Effects and System Sensitivity Degradation in Receive-Mode 5G Phased Arrays in the Presence of Multiple Interferers. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5780-5795.	4.6	24
122	A 256-Element Dual-Beam Polarization-Agile SATCOM Ku-Band Phased-Array With 5-dB/K G/T. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4986-4994.	4.6	24
123	A W-Band LNA/Phase Shifter With 5-dB NF and 24-mW Power Consumption in 32-nm CMOS SOI. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1973-1982.	4.6	23
124	An Eight-Element 140-GHz Wafer-Scale IF Beamforming Phased-Array Receiver With 64-QAM Operation in CMOS RFSOI. IEEE Journal of Solid-State Circuits, 2022, 57, 385-399.	5.4	23
125	Design and Analysis of a Low-Power 3â€“6-Gb/s 55-GHz OOK Receiver With High-Temperature Performance. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3263-3271.	4.6	22
126	A 2â€“15-GHz Accurate Built-in-Self-Test System for Wideband Phased Arrays Using Self-Correcting Eight-State I/Q Mixers. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4250-4261.	4.6	22

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127	Interwoven Feeding Networks With Aperture Sinc-Distribution for Limited-Scan Phased Arrays and Reduced Number of Phase Shifters. IEEE Transactions on Antennas and Propagation, 2018, 66, 2401-2413.	5.1	22
128	A scalable 64-element 28 ghz phased-array transceiver with 50 dbm eirp and 8-12 gbps 5g link at 300 meters without any calibration. , 2018, , .		22
129	High Efficiency D-Band Multiway Power Combined Amplifiers With 17.5â€“19-dBm Psat and 14.2â€“12.1% Peak PAE in 45-nm CMOS RFSOI. IEEE Journal of Solid-State Circuits, 2022, 57, 1332-1343.	5.4	22
130	A Two-Channel 8â€“20-GHz SiGe BiCMOS Receiver With Selectable IFs for Multibeam Phased-Array Digital Beamforming Applications. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 716-726.	4.6	21
131	A SiGe BiCMOS W-Band LNA with 5.1 dB NF at 90 GHz. , 2013, , .		21
132	A 60 GHz 64-element phased-array beam-pointing communication system for 5G 100 meter links up to 2 Gbps. , 2016, , .		21
133	A zipper RF MEMS tunable capacitor with interdigitated RF and actuation electrodes. Journal of Micromechanics and Microengineering, 2010, 20, 035014.	2.6	20
134	Compact Self-Shielded 2â€“3 GHz High-Q Coaxial Fixed and Tunable Filters. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3370-3379.	4.6	20
135	A Novel Approach to Beam Steering Using Arrays Composed of Multiple Unique Radiating Modes. IEEE Transactions on Antennas and Propagation, 2015, 63, 2932-2945.	5.1	20
136	Ka-Band BiCMOS 4-Bit Phase Shifter with Integrated LNA for Phased Array T/R Modules. , 2007, , .		19
137	Low-loss 0.13-µm CMOS 50 – 70 GHz SPDT and SP4T switches. , 2009, , .		19
138	Tunable 4-Pole Dual-Notch Filters for Cognitive Radios and Carrier Aggregation Systems. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1308-1314.	4.6	19
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