

Yasar Gurbuz

List of Publications by Year in descending order

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203
papers

2,966
citations

201385

27
h-index

197535

49
g-index

204
all docs

204
docs citations

204
times ranked

3547
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosensors for cardiac biomarkers detection: A review. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 62-76.	4.0	308
2	Review on carbon-derived, solid-state, micro and nano sensors for electrochemical sensing applications. <i>Diamond and Related Materials</i> , 2009, 18, 1401-1420.	1.8	212
3	Surface plasmon resonance based immunosensor for the detection of the cancer biomarker carcinoembryonic antigen. <i>Talanta</i> , 2011, 86, 377-383.	2.9	143
4	Graphene-interfaced electrical biosensor for label-free and sensitive detection of foodborne pathogenic <i>E. coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2017, 91, 225-231.	5.3	129
5	Label-free capacitive biosensor for sensitive detection of multiple biomarkers using gold interdigitated capacitor arrays. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2318-2323.	5.3	111
6	Development of surface chemistry for surface plasmon resonance based sensors for the detection of proteins and DNA molecules. <i>Analytica Chimica Acta</i> , 2012, 712, 138-144.	2.6	88
7	Label-free capacitance based aptasensor platform for the detection of HER2/ErbB2 cancer biomarker in serum. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1145-1151.	4.0	87
8	Comparison and analysis of Pd and Pt GaAs Schottky diodes for hydrogen detection. <i>Journal of Applied Physics</i> , 1994, 75, 8175-8181.	1.1	81
9	Diamond semiconductor technology for RF device applications. <i>Solid-State Electronics</i> , 2005, 49, 1055-1070.	0.8	75
10	Label-free RNA aptamer-based capacitive biosensor for the detection of C-reactive protein. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9176.	1.3	70
11	Capacitive aptamer-antibody based sandwich assay for the detection of VEGF cancer biomarker in serum. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 645-651.	4.0	70
12	Temperature dependence and effect of series resistance on the electrical characteristics of a polycrystalline diamond metal-insulator-semiconductor diode. <i>Journal of Applied Physics</i> , 1995, 78, 1101-1107.	1.1	64
13	A 6 Bit Vector-Sum Phase Shifter With a Decoder Based Control Circuit for X-Band Phased-Arrays. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 64-66.	2.0	61
14	A novel interdigitated capacitor based biosensor for detection of cardiovascular risk marker. <i>Biosensors and Bioelectronics</i> , 2009, 25, 877-882.	5.3	56
15	Gold nanoparticle modified capacitive sensor platform for multiple marker detection. <i>Talanta</i> , 2014, 118, 270-276.	2.9	55
16	A New Hydrogen Sensor Using a Polycrystalline Diamond-Based Schottky Diode. <i>Journal of the Electrochemical Society</i> , 1994, 141, 2231-2234.	1.3	51
17	Diamond microelectronic gas sensor for detection of benzene and toluene. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 207-215.	4.0	42
18	A novel magnetic particle-modified electrochemical sensor for immunosensor applications. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 187-194.	4.0	39

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19	7-Bit SiGe-BiCMOS Step Attenuator for X-Band Phased-Array RADAR Applications. IEEE Microwave and Wireless Components Letters, 2016, 26, 598-600.	2.0	38
20	Rapid and sensitive detection of Nampt (PBEF/visfatin) in human serum using an ssDNA aptamer-based capacitive biosensor. Biosensors and Bioelectronics, 2012, 38, 233-238.	5.3	37
21	An aptamer based competition assay for protein detection using CNT activated gold-interdigitated capacitor arrays. Biosensors and Bioelectronics, 2012, 34, 165-170.	5.3	37
22	Diamond as an active sensor material. Diamond and Related Materials, 1999, 8, 1741-1747.	1.8	35
23	BEOL embedded RF-MEMS switch for mm-wave applications. , 2009, , .		34
24	Diamond microelectronic gas sensors. Sensors and Actuators B: Chemical, 1996, 33, 100-104.	4.0	30
25	Nanocrystalline diamond film for biosensor applications. Diamond and Related Materials, 2010, 19, 457-461.	1.8	30
26	A nanostructured-nickel based interdigitated capacitive transducer for biosensor applications. Sensors and Actuators B: Chemical, 2011, 160, 891-898.	4.0	30
27	A SiGe HBT Σ -Band LNA With Butterworth Response and Noise Reduction Technique. IEEE Microwave and Wireless Components Letters, 2018, 28, 524-526.	2.0	30
28	Sandwich-type, antibody microarrays for the detection and quantification of cardiovascular risk markers. Sensors and Actuators B: Chemical, 2007, 125, 581-588.	4.0	29
29	CMOS SPDT T/R switch for X-band, on-chip radar applications. Electronics Letters, 2010, 46, 1382.	0.5	26
30	Solution-Based PbS Photodiodes, Integrable on ROIC, for SWIR Detector Applications. IEEE Electron Device Letters, 2013, 34, 662-664.	2.2	26
31	A polycrystalline diamond thin-film-based hydrogen sensor. Sensors and Actuators B: Chemical, 1995, 25, 421-425.	4.0	24
32	A new diode-based carbon monoxide gas sensor utilizing Pt-SnOx/diamond. Sensors and Actuators B: Chemical, 1999, 56, 151-154.	4.0	23
33	Field emission enhancement of diamond tips utilizing boron doping and surface treatment. Diamond and Related Materials, 1999, 8, 1220-1224.	1.8	22
34	A new microfluidics system with a hand-operated, on-chip actuator for immunosensor applications. Sensors and Actuators B: Chemical, 2012, 163, 194-201.	4.0	21
35	PECVD Diamond-Based High Performance Power Diodes. IEEE Transactions on Power Electronics, 2005, 20, 1-10.	5.4	20
36	Wide Range, Process and Temperature Compensated Voltage Controlled Current Source. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1345-1353.	3.5	20

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37	Performance comparison of state-of-the-art heterojunction bipolar devices (HBT) based on AlGaAs/GaAs, Si/SiGe and InGaAs/InP. <i>Microelectronics Journal</i> , 2004, 35, 901-908.	1.1	19
38	A new digital readout integrated circuit (DROIC) with pixel parallel A/D conversion and reduced quantization noise. <i>Infrared Physics and Technology</i> , 2014, 63, 125-132.	1.3	18
39	Whole-cell based label-free capacitive biosensor for rapid nanosize-dependent toxicity detection. <i>Biosensors and Bioelectronics</i> , 2015, 67, 100-106.	5.3	18
40	A Phase-Calibration Method for Vector-Sum Phase Shifters Using a Self-Generated LUT. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 1632-1642.	3.5	18
41	High temperature tolerant diamond-based microelectronic oxygen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 1998, 49, 115-120.	4.0	17
42	Current conduction mechanism and gas adsorption effects on device parameters of the Pt/SnO ₂ /sub x/diamond gas sensor. <i>IEEE Transactions on Electron Devices</i> , 1999, 46, 914-920.	1.6	17
43	An X-Band Slow-Wave T/R Switch in 0.25- μm SiGe BiCMOS. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014, 61, 65-69.	2.2	16
44	A High Dynamic Range Power Detector at X-Band. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 708-710.	2.0	16
45	A K-Band 5G Phased Array RX Channel With 3.3-dB NF and 28.5-dB Gain in 130-nm SiGe. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2938-2942.	2.2	16
46	A novel oxygen gas sensor utilizing thin film diamond diode with catalyzed tin oxide electrode. <i>Sensors and Actuators B: Chemical</i> , 1996, 36, 303-307.	4.0	15
47	Analyzing the mechanism of hydrogen adsorption effects on diamond based MIS hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , 1996, 35, 68-72.	4.0	15
48	Label-Free Biosensors for the Detection and Quantification of Cardiovascular Risk Markers. <i>Sensor Letters</i> , 2008, 6, 873-877.	0.4	15
49	Characterization of an embedded RF-MEMS switch. , 2010, , .		15
50	Label-free detection of cardiac biomarker using aptamer based capacitive biosensor. <i>Procedia Engineering</i> , 2010, 5, 828-830.	1.2	14
51	A Hand-Held Point-of-Care Biosensor Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers Using Interdigitated Capacitive Arrays. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1440-1449.	2.7	14
52	A 7-Bit Reverse-Saturated SiGe HBT Discrete Gain Step Attenuator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 665-669.	2.2	14
53	High-temperature tolerant diamond diode for carbon monoxide gas detection. <i>Journal of Applied Physics</i> , 1998, 84, 6935-6936.	1.1	13
54	X-band SiGe BiCMOS complementary metal-oxide semiconductor transmit/receive module core chip for phased array RADAR applications. <i>IET Microwaves, Antennas and Propagation</i> , 2015, 9, 948-956.	0.7	13

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55	An X-Band SiGe BiCMOS Triple-Cascade LNA With Boosted Gain and P_{1dB} . IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 994-998.	2.2	13
56	A 26-GHz Vector Modulator in 130-nm SiGe BiCMOS Achieving Monotonic 10-b Phase Resolution Without Calibration. , 2019, , .		13
57	Sub-1-dB and Wideband SiGe BiCMOS Low-Noise Amplifiers for π -Band Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1419-1430.	3.5	13
58	49 GHz 6-bit programmable divider in SiGe BiCMOS. , 2013, , .		12
59	Highly Responsive, Solution-Based Al/PbS and Au-Ti/PbS Schottky Photodiodes for SWIR Detection. IEEE Sensors Journal, 2014, 14, 816-820.	2.4	12
60	An analytical design methodology for microelectromechanical (MEM) filters. Sensors and Actuators A: Physical, 2005, 119, 38-47.	2.0	11
61	PbS Colloidal Quantum Dot Photodiodes for SWIR Detection. Procedia Engineering, 2012, 47, 1426-1429.	1.2	11
62	SiGe building blocks for on-chip X-Band T/R modules. , 2012, , .		11
63	Compact X-band SiGe power amplifier for single-chip phased array radar applications. IET Microwaves, Antennas and Propagation, 2012, 6, 956.	0.7	9
64	S. cerevisiae whole-cell based capacitive biochip for the detection of toxicity of different forms of carbon nanotubes. Sensors and Actuators B: Chemical, 2015, 218, 253-260.	4.0	9
65	Low-Noise Amplifiers for W-Band and D-Band Passive Imaging Systems in SiGe BiCMOS Technology. , 2018, , .		9
66	Ultra-Low Noise Amplifier for X-Band SiGe BiCMOS Phased Array Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1507-1511.	2.2	9
67	A MEM-varactor tuned, 7.8 GHz differential LC voltage-controlled oscillator. Sensors and Actuators A: Physical, 2008, 144, 296-303.	2.0	8
68	An X-band 6-bit active phase shifter. , 2014, , .		8
69	A PECVD diamond device for chemical gas sensing applications. Diamond and Related Materials, 1998, 7, 1723-1726.	1.8	7
70	A New 5-13 GHz Slow-Wave SPDT Switch With Reverse-Saturated SiGe HBTs. IEEE Microwave and Wireless Components Letters, 2017, 27, 581-583.	2.0	7
71	A PFM-Based Digital Pixel With an Off-Pixel Residue Measurement for Small Pitch FPAs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 887-891.	2.2	7
72	A Test Platform for the Noise Characterization of SiGe Microbolometer ROICs. IEEE Sensors Journal, 2018, 18, 6217-6223.	2.4	7

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73	A Digital Readout IC for Microbolometer Imagers Offering Low Power and Improved Self-Heating Compensation. IEEE Sensors Journal, 2020, 20, 909-917.	2.4	7
74	Impedance matching Wilkinson power dividers in 0.35 $\lambda/4$ m SiGe BiCMOS technology. Microwave and Optical Technology Letters, 2009, 51, 681-685.	0.9	6
75	Design of a ROIC for scanning type HgCdTe LWIR focal plane arrays. , 2010, , .		6
76	Probing chemical induced cellular stress by non-Faradaic electrochemical impedance spectroscopy using an Escherichia coli capacitive biochip. Analyst, The, 2011, 136, 2726.	1.7	6
77	Fully integrated low-power SiGe power amplifier for biomedical applications. IET Microwaves, Antennas and Propagation, 2011, 5, 214.	0.7	6
78	X-band, high performance, SiGe-heterojunction bipolar transistors-low noise amplifier for phased array radar applications. IET Microwaves, Antennas and Propagation, 2012, 6, 768.	0.7	6
79	Digital readout integrated circuit (DROIC) implementing time delay and integration (TDI) for scanning type infrared focal plane arrays (IRFPAs). Infrared Physics and Technology, 2016, 79, 101-112.	1.3	6
80	A new high dynamic range ROIC with smart light intensity control unit. Infrared Physics and Technology, 2017, 82, 161-169.	1.3	6
81	High Performance Thermistor Based on Si _{1-x} Ge _x /Si Multi Quantum Wells. IEEE Electron Device Letters, 2018, 39, 753-756.	2.2	6
82	A D-band SPDT switch utilizing reverse-saturated SiGe HBTs for dicke-radiometers. , 2018, , .		6
83	A matching circuit tuned, multi-band (WLAN and WiMAX), Class μ ; a power amplifier using 0.25 μ m-SiGe HBT technology. , 2008, , .		5
84	A fully integrated, highly linear CMOS T/R switch for X-Band phased array radars. International Journal of Circuit Theory and Applications, 2014, 42, 296-308.	1.3	5
85	A wideband low noise SiGe medium power amplifier for X-Band Phased Array applications. , 2016, , .		5
86	A Partially Pixel-Parallel DROIC for MWIR Imagers With Columnwise Residue Quantization. IEEE Transactions on Electron Devices, 2018, 65, 4916-4923.	1.6	5
87	Development of Hand-Held Point-of-Care Diagnostic Device for Detection of Multiple Cancer and Cardiac Disease Biomarkers. , 2018, , .		5
88	A DROIC Based on PFM ADCs Employing Over-Integration for Error Shaping. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3713-3722.	3.5	5
89	A Switchless SiGe BiCMOS Bidirectional Amplifier for Wideband Radar Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1844-1848.	2.2	5
90	Design and Characterization of a D-Band SiGe HBT Front-End for Dicke Radiometers. IEEE Sensors Journal, 2020, 20, 4694-4703.	2.4	5

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91	Low Noise Amplifier Design Using 0.35 μm SiGe BiCMOS Technology for WLAN/WiMax Applications. , 2006, , .		4
92	A new nanocrystalline diamond-based biosensor for the detection of cardiovascular risk markers. Procedia Chemistry, 2009, 1, 1079-1082.	0.7	4
93	Design and realization of 144 x 7 TDI ROIC with hybrid integrated test structure. , 2012, , .		4
94	Cryogenic measurements of a digital pixel readout integrated circuit for LWIR. , 2015, , .		4
95	A wideband high isolation CMOS T/R switch for X-band phased array radar systems. , 2016, , .		4
96	(Invited) Si _{1-x} Ge _x /Si MQW Based Uncooled Microbolometer Development and Integration into 130 nm BiCMOS Technology. ECS Transactions, 2018, 86, 373-383.	0.3	4
97	A SiGe BiCMOS W-Band Single-Chip Frequency Extension Module for VNAs. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 211-221.	2.9	4
98	The Effects of Structural Properties on Gas Sensing Performance of the Metal-Insulator-Semiconductor Hydrogen Gas Sensor. Journal of the Electrochemical Society, 1999, 146, 387-391.	1.3	3
99	Electro-thermal simulations and modelling of micromachined gas sensor. , 0, , .		3
100	A coplanar waveguide on-chip RF choke for WLAN RF circuits. Microwave and Optical Technology Letters, 2007, 49, 2530-2534.	0.9	3
101	Realization of a ROIC for 72 μm —4 PV-IR detectors. , 2008, , .		3
102	Realisation of a single-chip, silicon germanium:C-based power amplifier for multi-band worldwide interoperability for microwave access applications. IET Microwaves, Antennas and Propagation, 2010, 4, 2273.	0.7	3
103	A fully digital readout employing extended counting method to achieve very low quantization noise. , 2013, , .		3
104	Building blocks for an X-Band SiGe BiCMOS T/R module. , 2013, , .		3
105	Responsivity improvement in PbS colloidal quantum dot photoconductors using colloidal gold nanoparticles. Electronics Letters, 2013, 49, 367-369.	0.5	3
106	Design, fabrication and performance evaluation of interdigital capacitive sensor for detection of Cardiac Troponin-I and Human Epidermal Growth Factor Receptor 2. , 2015, , .		3
107	Device characteristics of antenna-coupled metal-insulator-metal diodes (rectenna) using Al ₂ O ₃ , TiO ₂ , and Cr ₂ O ₃ as insulator layer for energy harvesting applications. , 2015, , .		3
108	Design of monocrystalline Si/SiGe multi-quantum well microbolometer detector for infrared imaging systems. Proceedings of SPIE, 2016, , .	0.8	3

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109	The metal-insulator-metal diodes for infrared energy harvesting and detection applications. , 2016, , .		3
110	Cells-on-chip based transducer platform for probing toxicity of metal nanoparticles. Sensors and Actuators B: Chemical, 2016, 231, 659-665.	4.0	3
111	240 GHz RF-MEMS switch in a 0.13 μ m SiGe BiCMOS Technology. , 2017, , .		3
112	A 5 \times 13 GHz 6-bit vector-sum phase shifter with +3.5 dBm IP1dB in 0.25- μ m SiGe BiCMOS. , 2017, , .		3
113	A Behavioral Model for High Ge Content in Si/Si _{1-x} Ge _x Multi-Quantum Well Detector. IEEE Sensors Journal, 2018, , 1-1.	2.4	3
114	Comprehensive Predictive Device Modeling and Analysis of a Si/Si _{1-x} Ge _x Multi-Quantum-Well Detector. IEEE Transactions on Electron Devices, 2018, 65, 4353-4361.	1.6	3
115	Active Positive Sloped Equalizer for X-Band SiGe BiCMOS Phased Array Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1952-1956.	2.2	3
116	Front-End Blocks of a W-Band Dicke Radiometer in SiGe BiCMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2417-2421.	2.2	3
117	All-Pass Network and Transformer Based SiGe BiCMOS Phase Shifter for Multi-Band Arrays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 186-190.	2.2	3
118	X-Band 6-Bit SiGe BiCMOS Multifunctional Chip With +12 dBm IP1dB and Flat-Gain Response. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 126-130.	2.2	3
119	A Highly Linear SiGe BiCMOS Gilbert-Cell based Downconversion Mixer for 5G Applications. , 2022, , .		3
120	Diamond Microelectronic Gas Sensors. , 0, , .		2
121	A novel wide-band-gap semiconductor based microelectronic gas sensor. , 1997, , .		2
122	Carbon-derived micro- and nanostructures for chemical sensing. , 0, , .		2
123	A 4.5-5.8 GHz Differential LC VCO using 0.35 μ m SiGe BiCMOS Technology. , 2006, , .		2
124	Electron emission characteristics of sol-gel (Ba _{0.67} Sr _{0.33})TiO ₃ thin film coated silicon tips. Journal of Vacuum Science & Technology B, 2007, 25, 1560.	1.3	2
125	Implementation of pixel level digital TDI for scanning type LWIR FPAs. , 2014, , .		2
126	Probing synergistic toxicity effects on living cells by combination of two different sized nanoparticles by a whole μ cell based biochip. Materials Today: Proceedings, 2017, 4, 8427-8431.	0.9	2

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127	A Wideband (3â€“13 GHz) 7-Bit SiGe BiCMOS Step Attenuator with Improved Flatness. , 2018, , .		2
128	A Novel Approach to Noise Shaping in Digital Pixels for Infrared Imagers using Over-Integration. , 2018, , .		2
129	Development and Mechanical Modeling of Si1-XGex/Si MQW Based Uncooled Microbolometers in a 130 nm BiCMOS. , 2019, , .		2
130	Thermo-Mechanical Modeling and Experimental Validation of an Uncooled Microbolometer. , 2020, , .		2
131	High Responsivity Power Detectors for W/D-Bands Passive Imaging Systems in 0.13Î¼m SiGe BiCMOS Technology. , 2018, , .		2
132	High sensitivity and temperature tolerant microelectronic O/sub 2/ gas sensor. , 0, , .		1
133	A solid-state hydrocarbon sensor for environmental applications. , 0, , .		1
134	Polyurethane Nanofiber Webs for Sensor and Actuator Applications in Microelectromechanical Systems (MEMS). Materials Research Society Symposia Proceedings, 2003, 782, 1.	0.1	1
135	Design and Implementation of SiGe-BiCMOS Mixer for UWB Applications. , 0, , .		1
136	A MEM varactor tuned-voltage controlled oscillator fabricated using 0.35μm SiGe BiCMOS Technology. , 2007, , .		1
137	Design of a 4.2â€“5.4 GHz differential LC VCO using 0.35 Î¼m SiGe BiCMOS technology for IEEE 802.11a applications. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 243-251.	0.8	1
138	Realization of a VCO for WLAN applications using 0.35 Î¼m-siGe BiCMOS technology. International Journal of RF and Microwave Computer-Aided Engineering, 2008, 18, 485-495.	0.8	1
139	A novel single-chip RF-voltage-controlled oscillator for bio-sensing applications. Procedia Chemistry, 2009, 1, 1007-1010.	0.7	1
140	A single-chip RF power amplifier with integrated impedance matching Wilkinson power dividers for 5.2 GHz WLAN applications. Microwave and Optical Technology Letters, 2010, 52, 2413-2419.	0.9	1
141	Design of ROIC based on switched capacitor TDI for MCT LWIR focal plane arrays. Proceedings of SPIE, 2011, , .	0.8	1
142	Label-Free Capacitive E. coli Biochip for Determining Chemicals that Induce Cellular Toxicity. Procedia Engineering, 2011, 25, 928-931.	1.2	1
143	Design of 90Ã—8 ROIC with pixel level digital TDI implementation for scanning type LWIR FPAs. , 2013, , .		1
144	A 4-bit SiGe passive phase shifter for X-band phased arrays. , 2013, , .		1

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145	Building blocks for an X-band SiGe BiCMOS T/R module. , 2013, , .		1
146	A 4-bit SiGe passive phase shifter for X-band phased arrays. , 2013, , .		1
147	A 4-bit SiGe passive phase shifter for X-band phased arrays. , 2013, , .		1
148	A 4-bit SiGe passive phase shifter for X-band phased arrays. , 2013, , .		1
149	Building blocks for an X-band SiGe BiCMOS T/R module. , 2013, , .		1
150	4-Bit SiGe phase shifter using distributed active switches and variable gain amplifier for X-band phased array applications. , 2014, , .		1
151	VEGF Cancer Biomarker Protein Detection in Real Human Serum Using Capacitive Label-Free Aptasensor. Macromolecular Symposia, 2015, 357, 74-78.	0.4	1
152	Digital pixel readout integrated circuit architectures for LWIR. Proceedings of SPIE, 2015, , .	0.8	1
153	X-band high dynamic range flat gain SiGe BiCMOS low noise amplifier. , 2015, , .		1
154	Dynamic power reduction in digital pixel design for large format focal plane arrays. Microelectronics Journal, 2016, 58, 9-13.	1.1	1
155	Implementation of TDI based digital pixel ROIC with 15 μ m pixel pitch. , 2016, , .		1
156	A PFM-based MWIR DROIC employing off-pixel fine conversion of photocharge to digital using integrated column ADCs. Proceedings of SPIE, 2017, , .	0.8	1
157	A SiGe BiCMOS Bypass Low-Noise Amplifier for X-Band Phased Array RADARs. , 2018, , .		1
158	Process Effects on the Noise Performance of SiGe/Si Multi Quantum Well Thermistor. ECS Transactions, 2019, 93, 105-108.	0.3	1
159	A Tunable SiGe BiCMOS Gain-Equalizer For X-Band Phased-Array RADAR Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1947-1951.	2.2	1
160	A 7-Bit 0.22 dB Step Variable Attenuator with Flat States and Low Phase Variation at 1.5-13.5 GHz using iNMOS Switches. , 2020, , .		1
161	Establishing a Covert Communication Channel in RF and mm-Wave Circuits. , 2020, , .		1
162	A 0.9 mW Compact Power Detector with 30 dB Dynamic Range for Automotive Radar Applications. , 2020, , .		1

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163	Pixel resistance optimization of a Si _{0.5} Ge _{0.5} /Si MQWs thermistor based on in-situ B doping for microbolometer applications. , 2018, , .		1
164	A low-power CMOS readout IC with on-chip column-parallel SAR ADCs for microbolometer applications. , 2018, , .		1
165	LNA Designs for 5G Receiver Applications. , 2021, , .		1
166	Development Of Diamond Based Power Microelectronics. Materials Research Society Symposia Proceedings, 1997, 483, 53.	0.1	0
167	A new high temperature solid-state microelectronic carbon monoxide gas sensor. , 0, , .		0
168	Design and simulation of photonic crystals for temperature reading of ultra-small structures. , 0, , .		0
169	<title>Two-dimensional photonic crystal for surface temperature reading of miniature systems</title>. , 2002, , .		0
170	Biosensor Implementation for Cardiovascular Risk Marker Analysis. , 0, , .		0
171	Label-free, capacitive immunosensor for protein detection. , 2006, , .		0
172	A Low Noise and Low Power, SiGe-BiCMOS LNA for IEEE 802.11a Applications. , 2006, , .		0
173	Design of a 4.2-5.4 GHz Differential LC VCO using 0.35 Å;m SiGe BiCMOS Technology. , 2006, , .		0
174	A MEM varactor tuned-voltage controlled oscillator fabricated using 0.35μm SiGe BiCMOS technology. , 2007, , .		0
175	Biosensors for the detection of cardiovascular risk markers in human serum. , 2008, , .		0
176	Performance comparison of a single and multiband power amplifiers using IHP 0.25 Å;m SiGe HBT technology. International Journal of RF and Microwave Computer-Aided Engineering, 2009, 19, 434-442.	0.8	0
177	Design of a tunable multi-band differential LC VCO using 0.35 Å;m SiGe BiCMOS technology for multi-standard wireless communication systems. Microelectronics Journal, 2009, 40, 983-990.	1.1	0
178	Realisation of radio frequency microelectromechanical devices for multiband, tunable circuit applications. IET Microwaves, Antennas and Propagation, 2011, 5, 1359.	0.7	0
179	Capacitive Biosensor for Nanotoxicity Detection. Procedia Engineering, 2012, 47, 1331-1333.	1.2	0
180	Solution based Al/PbS and Ti-Au/PbS Schottky photodiodes for SWIR detection. Proceedings of SPIE, 2012, , .	0.8	0

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181	Solution-based photodetectors for monolithically integrated low-cost short-wave infrared focal plane arrays. , 2013, , .		0
182	A new unit cell design with automatic input stage selection capability for increased SNR. , 2013, , .		0
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