

Ullrich Pfeiffer

List of Publications by Year in descending order

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209
papers

6,437
citations

147566

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98622

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211
docs citations

211
times ranked

5588
citing authors

#	ARTICLE	IF	CITATIONS
1	A 1 k-Pixel Video Camera for 0.7–1.1 Terahertz Imaging Applications in 65-nm CMOS. IEEE Journal of Solid-State Circuits, 2012, 47, 2999-3012.	3.5	399
2	A 0.65 THz Focal-Plane Array in a Quarter-Micron CMOS Process Technology. IEEE Journal of Solid-State Circuits, 2009, 44, 1968-1976.	3.5	359
3	A Silicon 60-GHz Receiver and Transmitter Chipset for Broadband Communications. IEEE Journal of Solid-State Circuits, 2006, 41, 2820-2831.	3.5	305
4	Rational design of high-responsivity detectors of terahertz radiation based on distributed self-mixing in silicon field-effect transistors. Journal of Applied Physics, 2009, 105, .	1.1	291
5	Terahertz Imaging and Sensing Applications With Silicon-Based Technologies. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 1-19.	2.0	249
6	SiGe bipolar transceiver circuits operating at 60 GHz. IEEE Journal of Solid-State Circuits, 2005, 40, 156-167.	3.5	248
7	Active 220- and 325-GHz Frequency Multiplier Chains in an SiGe HBT Technology. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1311-1318.	2.9	159
8	A chip-scale packaging technology for 60-GHz wireless chipsets. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3387-3397.	2.9	146
9	A 16-QAM 100-Gb/s 1-M Wireless Link With an EVM of 17% at 230 GHz in an SiGe Technology. IEEE Microwave and Wireless Components Letters, 2019, 29, 297-299.	2.0	134
10	A Fully Integrated 240-GHz Direct-Conversion Quadrature Transmitter and Receiver Chipset in SiGe Technology. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 562-574.	2.9	129
11	A 288-GHz Lens-Integrated Balanced Triple-Push Source in a 65-nm CMOS Technology. IEEE Journal of Solid-State Circuits, 2013, 48, 1751-1761.	3.5	123
12	Subharmonic 220- and 320-GHz SiGe HBT Receiver Front-Ends. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1397-1404.	2.9	118
13	A 20 dBm Fully-Integrated 60 GHz SiGe Power Amplifier With Automatic Level Control. IEEE Journal of Solid-State Circuits, 2007, 42, 1455-1463.	3.5	112
14	A 0.53 THz Reconfigurable Source Module With Up to 1 mW Radiated Power for Diffuse Illumination in Terahertz Imaging Applications. IEEE Journal of Solid-State Circuits, 2014, 49, 2938-2950.	3.5	106
15	A 210–270-GHz Circularly Polarized FMCW Radar With a Single-Lens-Coupled SiGe HBT Chip. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 771-783.	2.0	104
16	Terahertz heterodyne detection with silicon field-effect transistors. Applied Physics Letters, 2010, 96, .	1.5	98
17	60GHz transceiver circuits in SiGe bipolar technology. , 0, , .		90
18	A 23-dBm 60-GHz Distributed Active Transformer in a Silicon Process Technology. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 857-865.	2.9	88

#	ARTICLE	IF	CITATIONS
19	160-GHz to 1-THz Multi-Color Active Imaging With a Lens-Coupled SiGe HBT Chip-Set. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 520-532.	2.9	87
20	Probe based MMW antenna measurement setup. , 2004, , .		72
21	Schottky Barrier Diode Circuits in Silicon for Future Millimeter-Wave and Terahertz Applications. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 364-371.	2.9	72
22	A 1kpixel CMOS camera chip for 25fps real-time terahertz imaging applications. , 2012, , .		69
23	The ATLAS Level-1 Calorimeter Trigger. Journal of Instrumentation, 2008, 3, P03001-P03001.	0.5	65
24	A 160-GHz Subharmonic Transmitter and Receiver Chipset in an SiGe HBT Technology. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3286-3299.	2.9	65
25	A 600-GHz CMOS focal-plane array for terahertz imaging applications. , 2008, , .		64
26	A 77 GHz SiGe power amplifier for potential applications in automotive radar systems. , 0, , .		62
27	A Terahertz Detector Array in a SiGe HBT Technology. IEEE Journal of Solid-State Circuits, 2013, 48, 2002-2010.	3.5	61
28	A SiGe quadrature transmitter and receiver chipset for emerging high-frequency applications at 160GHz. , 2010, , .		57
29	A QPSK 110-Gb/s Polarization-Diversity MIMO Wireless Link With a 220â€“255 GHz Tunable LO in a SiGe HBT Technology. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3834-3851.	2.9	56
30	Determination of the complex permittivity of packaging materials at millimeter-wave frequencies. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1001-1010.	2.9	53
31	Pilot study of freshly excised breast tissue response in the 300 â€“ 600 GHz range. Biomedical Optics Express, 2018, 9, 2930.	1.5	48
32	Wideband Cavity-backed Folded Dipole Superstrate Antenna for 60 GHz Applications. , 2006, , .		44
33	Terahertz imaging detectors in a 65-nm CMOS SOI technology. , 2010, , .		44
34	160-GHz Power Amplifier Design in Advanced SiGe HBT Technologies With $\{P\}_{m sat}$ in Excess of 10 dBm. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 939-947.	2.9	42
35	Terahertz Imaging Detectors in CMOS Technology. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1269.	1.2	41
36	Terahertz imaging with Si MOSFET focal-plane arrays. , 2009, , .		41

#	ARTICLE	IF	CITATIONS
37	A 65 Gbps QPSK one meter wireless link operating at a 225–255 GHz tunable carrier in a SiGe HBT technology. , 2018, , .		41
38	THz Direct Detector and Heterodyne Receiver Arrays in Silicon Nanoscale Technologies. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 998-1032.	1.2	39
39	Lens-integrated THz imaging arrays in 65nm CMOS technologies. , 2011, , .		38
40	A 820GHz SiGe chipset for terahertz active imaging applications. , 2011, , .		38
41	Solid-State Terahertz Superresolution Imaging Device in 130-nm SiGe BiCMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 4357-4372.	2.9	38
42	InP-Based THz Beam Steering Leaky-Wave Antenna. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 218-230.	2.0	38
43	A broadband 0.6 to 1 THz CMOS imaging detector with an integrated lens. , 2011, , .		37
44	235–275 GHz (x16) frequency multiplier chains with up to 0 dBm peak output power and low DC power consumption. , 2014, , .		36
45	A wideband fully integrated SiGe chipset for high data rate communication at 240 GHz. , 2016, , .		34
46	Active Multiple Feed On-Chip Antennas With Efficient In-Antenna Power Combining Operating at 200–320 GHz. IEEE Transactions on Antennas and Propagation, 2017, 65, 416-423.	3.1	33
47	A 0.32 THz FMCW radar system based on low-cost lens-integrated SiGe HBT front-ends. , 2013, , .		32
48	Toward Mobile Integrated Electronic Systems at THz Frequencies. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 846-869.	1.2	32
49	Toward low-NEP room-temperature THz MOSFET direct detectors in CMOS technology. , 2013, , .		31
50	14.5 A 0.53THz reconfigurable source array with up to 1mW radiated power for terahertz imaging applications in 0.13μm SiGe BiCMOS. , 2014, , .		31
51	Real-time video rate imaging with a 1k-pixel THz CMOS focal plane array. Proceedings of SPIE, 2012, , .	0.8	30
52	A lens-integrated 430 GHz SiGe HBT source with up to \sim 6.3 dBm radiated power. , 2017, , .		30
53	A Lens-Coupled On-Chip Antenna for Dual-Polarization SiGe HBT THz Direct Detector. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2404-2408.	2.4	29
54	A direct-conversion receiver IC for WCDMA mobile systems. IEEE Journal of Solid-State Circuits, 2003, 38, 1555-1560.	3.5	28

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55	A 20dBm Fully-Integrated 60GHz SiGe Power Amplifier with Automatic Level Control. , 2006, , .		28
56	High-efficiency 60 GHz antenna fabricated using low-cost silicon micromachining techniques. , 2007, , .		28
57	A 128-Pixel System-on-a-Chip for Real-Time Super-Resolution Terahertz Near-Field Imaging. IEEE Journal of Solid-State Circuits, 2018, 53, 3599-3612.	3.5	28
58	A 60GHz Class-E Power Amplifier in SiGe. , 2006, , .		27
59	A 288-GHz lens-integrated balanced triple-push source in a 65-nm CMOS technology. , 2012, , .		27
60	A 64-Pixel 0.42-THz Source SoC With Spatial Modulation Diversity for Computational Imaging. IEEE Journal of Solid-State Circuits, 2020, 55, 3281-3293.	3.5	27
61	A wideband 240 GHz lens-integrated circularly polarized on-chip annular slot antenna for a FMCW radar transceiver module in SiGe technology. , 2015, , .		26
62	Terahertz imaging with CMOS/BiCMOS process technologies. , 2010, , .		25
63	Wide bandwidth room-temperature THz imaging array based on antenna-coupled MOSFET bolometer. Sensors and Actuators A: Physical, 2014, 215, 96-104.	2.0	25
64	A CMOS focal-plane array for heterodyne terahertz imaging. , 2009, , .		24
65	Terahertz Light-Field Imaging. IEEE Transactions on Terahertz Science and Technology, 2016, , 1-9.	2.0	24
66	Pure-mode network analyzer concept for on-wafer measurements of differential circuits at millimeter-wave frequencies. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 934-937.	2.9	23
67	Silicon Millimeter-Wave Radio Circuits at 60-100 GHz. , 2007, , .		23
68	Antenna-Coupled MOSFET Bolometers for Uncooled THz Sensing. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 902-913.	2.0	22
69	A 0.55 THz Near-Field Sensor With a μm -Range Lateral Resolution Fully Integrated in 130 nm SiGe BiCMOS. IEEE Journal of Solid-State Circuits, 2016, 51, 3063-3077.	3.5	22
70	WCDMA direct-conversion receiver front-end comparison in RF-CMOS and SiGe BiCMOS. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1181-1188.	2.9	21
71	A 650GHz SiGe receiver front-end for terahertz imaging arrays. , 2010, , .		21
72	A direct-conversion receiver integrated circuit for WCDMA mobile systems. IBM Journal of Research and Development, 2003, 47, 337-353.	3.2	20

#	ARTICLE	IF	CITATIONS
73	Silicon germanium based millimetre-wave ICs for Gbps wireless communications and radar systems. Semiconductor Science and Technology, 2007, 22, S236-S243.	1.0	20
74	A 325 GHz frequency multiplier chain in a SiGe HBT technology. , 2010, , .		20
75	Performance Evaluation of a 32-QAM 1-Meter Wireless Link Operating at 220â€“260 GHz with a Data-Rate of 90 Gbps. , 2018, , .		20
76	Millimeter-wave design considerations for power amplifiers in an SiGe process technology. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 57-64.	2.9	19
77	The ATLAS level-1 calorimeter trigger architecture. IEEE Transactions on Nuclear Science, 2004, 51, 356-360.	1.2	18
78	SiGe transformer matched power amplifier for operation at millimeter-wave frequencies. , 0, , .		18
79	Equivalent circuit model extraction of flip-chip ball interconnects based on direct probing techniques. IEEE Microwave and Wireless Components Letters, 2005, 15, 594-596.	2.0	18
80	A 219â€“266 GHz fully-integrated direct-conversion IQ receiver module in a SiGe HBT technology. , 2017, , .		18
81	A Terahertz Direct Detector in 22nm FD-SOI CMOS. , 2018, , .		18
82	Ex Vivo Breast Tumor Identification: Advances Toward a Silicon-Based Terahertz Near-Field Imaging Sensor. IEEE Microwave Magazine, 2019, 20, 32-46.	0.7	18
83	A Broadband Dual-Polarized Terahertz Direct Detector in a 0.13-Î¼m SiGe HBT Technology. , 2019, , .		18
84	Terahertz refractive index-based morphological dilation for breast carcinoma delineation. Scientific Reports, 2021, 11, 6457.	1.6	18
85	Characterization of flip-chip interconnects up to millimeter-wave frequencies based on a nondestructive in situ approach. IEEE Transactions on Advanced Packaging, 2005, 28, 160-167.	1.7	17
86	A 60GHz Radio Chipset Fully-Integrated in a Low-Cost Packaging Technology. , 0, , .		17
87	A 135–170 GHz power amplifier in an advanced sige HBT technology. , 2013, , .		17
88	The EU DOTSEVEN Project: Overview and Results. , 2016, , .		17
89	Silicon Schottky Diode Power Converters Beyond 100 GHz. , 2007, , .		16
90	On design of differentially driven on-chip antennas with harmonic filtering for silicon integrated mm-wave and THz N-push oscillators. , 2014, , .		16

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91	A lens-coupled 210–270 GHz circularly polarized FMCW radar transceiver module in SiGe technology. , 2015, , .		16
92	Current Status of Terahertz Integrated Circuits - From Components to Systems. , 2018, , .		16
93	Terahertz Spectroscope Using CMOS Camera and Dispersive Optics. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 513-523.	2.0	15
94	A SiGe HBT 215–240 GHz DCA IQ TX/RX Chipset With Built-In Test of USB/LSB RF Asymmetry for 100+ Gb/s Data Rates. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1696-1714.	2.9	15
95	A Broadband 300 GHz Power Amplifier in a 130 nm SiGe BiCMOS Technology for Communication Applications. IEEE Journal of Solid-State Circuits, 2022, 57, 2024-2034.	3.5	15
96	MM-wave transceivers using SiGe HBT technology. , 0, , .		14
97	Progress toward a low-cost millimeter-wave silicon radio. , 0, , .		14
98	A CMOS focal-plane array for terahertz imaging. , 2008, , .		14
99	Fundamental mode colpitts VCOs at 115 and 165-GHz. , 2011, , .		14
100	An antenna-coupled 0.49 THz SiGe HBT source for active illumination in terahertz imaging applications. , 2015, , .		14
101	Amorphous Indium-Gallium-Zinc-Oxide TFTs Patterned by Self-Aligned Photolithography Overcoming the GHz Threshold. IEEE Electron Device Letters, 2020, 41, 1786-1789.	2.2	14
102	Signal-processing Challenges in Leveraging 100 Gb/s Wireless THz. , 2020, , .		14
103	29.1 A 0.42THz 9.2dBm 64-Pixel Source-Array SoC with Spatial Modulation Diversity for Computational Terahertz Imaging. , 2020, , .		14
104	Lens-integrated on-chip antennas for THz direct detectors in SiGe HBT technology. , 2013, , .		13
105	A 200–225 GHz SiGe Power Amplifier with peak P _{sat} of 9.6 dBm using wideband power combination. , 2016, , .		13
106	Optimization and Performance Limits of a 64-QAM Wireless Communication Link at 220-260 GHz in a SiGe HBT Technology. , 2019, , .		13
107	Design and Compliance Testing of a SiGe WCDMA Receiver IC With Integrated Analog Baseband. Proceedings of the IEEE, 2005, 93, 1624-1636.	16.4	12
108	A 160-GHz low-noise downconversion receiver front-end in a SiGe HBT technology. International Journal of Microwave and Wireless Technologies, 2011, 3, 347-353.	1.5	12

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109	Towards passive imaging with CMOS THz cameras. , 2016, , .		12
110	High data-rate communication link at 240 GHz with on-chip antenna-integrated transmitter and receiver modules in SiGe HBT technology. , 2017, , .		12
111	Low-Cost 0.5 THz computed tomography based on silicon components. , 2017, , .		12
112	Program FFlexCom â€” High frequency flexible bendable electronics for wireless communication systems. , 2017, , .		12
113	A 240 GHz high-speed transmission link with highly-integrated transmitter and receiver modules in SiGe HBT technology. , 2017, , .		12
114	A 219â€”266 GHz LO-tunable direct-conversion IQ receiver module in a SiGe HBT technology. International Journal of Microwave and Wireless Technologies, 2018, 10, 587-595.	1.5	12
115	Broadband Modeling, Analysis, and Characterization of SiGe HBT Terahertz Direct Detectors. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1314-1333.	2.9	12
116	Silicon CMOS/SiGe transceiver circuits for THz applications. , 2012, , .		11
117	A 240-GHz circularly polarized FMCW radar based on a SiGe transceiver with a lens-coupled on-chip antenna. International Journal of Microwave and Wireless Technologies, 2015, 7, 415-423.	1.5	11
118	Towards 100 Gbps: A Fully Electronic 90 Gbps One Meter Wireless Link at 230 GHz. , 2018, , .		11
119	Performance Characterization Method of Broadband Terahertz Video Cameras. , 2019, , .		11
120	Terahertz Rectennas on Flexible Substrates Based on One-Dimensional Metalâ€”Insulatorâ€”Graphene Diodes. ACS Applied Electronic Materials, 2021, 3, 3747-3753.	2.0	11
121	Low-loss contact pad with turned impedance for operation at millimeter wave frequencies. , 0, , .		10
122	A 94-GHz Monolithic Front-End for Imaging Arrays in SiGe:C Technology. , 2008, , .		10
123	100 Gbps and beyond: Hardware in the Loop experiments with PSSS modulation using 230 GHz RF frontend. , 2018, , .		10
124	A 128-pixel 0.56THz sensing array for real-time near-field imaging in 0.13Î¼m SiGe BiCMOS. , 2018, , .		10
125	A Broadband Antenna-Coupled Terahertz Direct Detector in a 0.13-Î¼m SiGe HBT Technology. , 2019, , .		10
126	A 210â€”291-GHz (8Ã—) Frequency Multiplier Chain With Low Power Consumption in 0.13-Î¼m SiGe. IEEE Microwave and Wireless Components Letters, 2020, 30, 512-515.	2.0	10

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127	34.3 A 32Å—32 Pixel 0.46-to-0.75THz Light-Field Camera SoC in 0.13Î¼ m CMOS. , 2021, , .		10
128	On the co-design between on-chip antennas and THz MOSFET direct detectors in CMOS technology. , 2012, , .		9
129	Compact Model Validation Strategies Based on Dedicated and Benchmark Circuit Blocks for the mm-Wave Frequency Range. , 2015, , .		9
130	Incoherent, spatially-mapped THz spectral analysis. , 2018, , .		9
131	Novel 3-D Multilayer Terahertz Packaging Technology for Integrating Photodiodes Arrays and Rectangular Waveguide-Power Combiners. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4611-4619.	2.9	9
132	Sub-millimeter wave active imaging with silicon integrated circuits. , 2011, , .		8
133	A 233-GHz low noise amplifier with 22.5dB gain in 0.13μm SiGe. , 2014, , .		8
134	A broadband 240 GHz lens-integrated polarization-diversity on-chip circular slot antenna for a power source module in SiGe technology. , 2015, , .		8
135	Numerical Computation of Temperature Elevation in Human Skin Due to Electromagnetic Exposure in the THz Frequency Range. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 978-989.	2.0	8
136	Zero gate-bias terahertz detection with an asymmetric NMOS transistor. , 2016, , .		8
137	A 94-GHz Monolithic Front-End for Imaging Arrays in SiGe:C Technology. , 2008, , .		7
138	30 Gbps wireless data transmission with fully integrated 240 GHz silicon based transmitter. , 2017, , .		7
139	Resolution Limits in Lens-Integrated CMOS THz Cameras Employing Super-Resolution Imaging. , 2019, , .		7
140	A 239â€“298 GHz Power Amplifier in an Advanced 130 nm SiGe BiCMOS Technology for Communications Applications. , 2021, , .		7
141	Non-destructive S-parameter measurement of a hermetically encapsulated package with comparison to high-frequency simulation. , 0, , .		6
142	A 220GHz subharmonic receiver front end in a SiGe HBT technology. , 2011, , .		6
143	Terahertz detector arrays in a high-performance SiGe HBT technology. , 2012, , .		6
144	A 240 GHz circular polarized FMCW radar based on a SiGe transceiver with a lens-integrated on-chip antenna. , 2014, , .		6

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145	J-band amplifier design using gain-enhanced cascodes in 0.13 μm SiGe. International Journal of Microwave and Wireless Technologies, 2015, 7, 339-347.	1.5	6
146	Diffuse Beam with Electronic THz Source Array. , 2018, , .		6
147	Attempts for exposure assessment in the THz-frequency range using numerical computations. , 2012, , .		5
148	The ATLAS Level-1 Calorimeter Trigger: PreProcessor implementation and performance. Journal of Instrumentation, 2012, 7, P12008-P12008.	0.5	5
149	A 240 GHz circular polarized FMCW radar based on a SiGe transceiver with a lens-integrated on-chip antenna. , 2014, , .		5
150	A 246 GHz fundamental source with a peak output power of 2.8 dBm. , 2015, , .		5
151	25.1 A fully integrated 0.55THz near-field sensor with a lateral resolution down to 8 μm in 0.13 μm SiGe BiCMOS. , 2016, , .		5
152	An OOK-modulator at 240 GHz with 20 GHz bandwidth. , 2016, , .		5
153	THz spectroscopy and imaging for breast cancer detection in the 300-500 GHz range. , 2017, , .		5
154	Towards 100 Gbps: A Fully Electronic 90 Gbps One Meter Wireless Link at 230 GHz. , 2018, , .		5
155	Evaluation of the Beyond- f_T Operation of an IGZO TFT-Based RF Self-Mixing Circuit. IEEE Microwave and Wireless Components Letters, 2019, 29, 119-121.	2.0	5
156	Incoherent Power Combining of THz Source Arrays. , 2019, , .		5
157	CMOS THz Camera Used as Compact Antenna Test Range. , 2020, , .		5
158	Comparative Analysis of Ultra-Low Current Measurement Topologies With Implementation in 130 nm Technology. IEEE Access, 2021, 9, 63855-63864.	2.6	5
159	Resolution Limits of Hyper-Hemispherical Silicon Lens-Integrated THz Cameras Employing Geometrical Multiframe Super-Resolution Imaging. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 277-286.	2.0	5
160	Statistical analysis and modelling of low-cost leadless packages for wireless applications based on non-destructive measurements. , 2003, , .		4
161	Terahertz heterodyne detection with silicon CMOS transistors. , 2009, , .		4
162	A lens-integrated on-chip circular slot antenna for a 240 GHz power source in SiGe technology. , 2015, , .		4

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163	A fully-integrated terahertz near-field sensor for super-resolution imaging in SiGe BiCMOS. , 2016, , .		4
164	Investigations on the plenoptics based image generation for THz reflection imaging. , 2017, , .		4
165	NearSense â€œ Advances Towards a Silicon-Based Terahertz Near-Field Imaging Sensor for Ex Vivo Breast Tumour Identification. Frequenz, 2018, 72, 93-99.	0.6	4
166	Broadband Lens-Integrated CMOS Camera-Type THz Compact Antenna Test Range. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 527-537.	2.0	4
167	An Ultra Low Current Measurement Mixed-Signal ASIC for Radiation Monitoring Using Ionisation Chambers. IEEE Sensors Journal, 2022, 22, 2142-2150.	2.4	4
168	A new in-situ approach to flip-chip interconnect characterization up to millimeter wave frequencies. , 0, , .		3
169	A recursive un-termination method for nondestructive in situ S-parameter measurement of hermetically encapsulated packages. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1845-1855.	2.9	3
170	A 17 dBm 64 GHz Voltage Controlled Oscillator with Power Amplifier in a 0.13 um SiGe BiCMOS Technology. , 0, , .		3
171	A 2×2 lens-integrated on-chip antenna system for a 820 GHz multiplier-chain source in SiGe technology. , 2014, , .		3
172	3-D high-resolution imaging at 240 GHz with a single-chip FMCW monostatic radar in SiGe HBT technology. , 2016, , .		3
173	Towards THz high data-rate communication. , 2017, , .		3
174	A Solid-State 0.56 THz Near-Field Array for 1/4M-Scale Surface Imaging. , 2018, , .		3
175	A High-Speed QPSK/16-QAM 1-m Wireless Link with a Tunable 220â€“260 GHz LO Carrier in SiGe HBT Technology. , 2018, , .		3
176	Object Feature Extraction with Focused Terahertz Plenoptic Imaging. , 2018, , .		3
177	Performance Evaluation of a 220â€“260 GHz LO Tunable BPSK/QPSK Wireless Link in SiGe HBT Technology. , 2018, , .		3
178	A direct-conversion receiver IC for WCDMA mobile systems. , 0, , .		2
179	Broadband planar millimeter wave dipole with flip-chip interconnect. , 2007, , .		2
180	Towards 3D-imaging with low-cost SiGe-Technology at 160GHz. , 2011, , .		2

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181	SiGe Circuits for THz Applications. , 2012, , .		2
182	Development and application of electromagnetic field excitation models for dosimetry studies in the THz range. , 2014, , .		2
183	A 275 GHz amplifier in 0.35 μ m SiGe. , 2016, , .		2
184	Effects of proton irradiation on 60 GHz CMOS transceiver chip for multi-Gbps communication in high-energy physics experiments. Journal of Engineering, 2019, 2019, 5391-5396.	0.6	2
185	RF Front-End Impairments for Ultra-Broadband Wireless Communication above 200 GHz. , 2019, , .		2
186	Silicon Lens Optimization to Create Diffuse, Uniform Illumination from Incoherent THz Source Arrays. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 947-959.	1.2	2
187	CMOS Camera-Type THz Compact Antenna Test Range for Far-Field Radiation Pattern Analysis. , 2020, , .		2
188	A novel simulation and verification approach in an ASIC design process. IEEE Transactions on Nuclear Science, 2002, 49, 307-311.	1.2	1
189	Efficient distributed self-mixing in silicon CMOS transistors. , 2009, , .		1
190	Methods for determining the exposure to THz radiation utilizing CMOS-based detectors. , 2013, , .		1
191	SiGe Transmitter and Receiver Circuits for Emerging Terahertz Applications. , 2014, , .		1
192	A Real-Time Terahertz Beam Monitoring Application with a 1024-pixel CMOS Terahertz Camera Module. , 2014, , .		1
193	Wireless data transmission for high energy physics applications. EPJ Web of Conferences, 2017, 150, 00002.	0.1	1
194	Performance Limits of THz Dispersive Spectroscopes Employing Super-Resolution Imaging. IEEE Transactions on Terahertz Science and Technology, 2021, , 1-1.	2.0	1
195	Radial Distortion in Silicon Lens-Integrated THz Cameras. , 2021, , .		1
196	Broadband Spectro-Spatial Characterization of CW Terahertz Photoemitter Using CMOS Camera. , 2020, , .		1
197	A flexible demonstrator system for the ATLAS level-1 calorimeter trigger. , 0, , .		0
198	A mixed signal multi-chip module with high speed serial output links for the ATLAS level-1 trigger. IEEE Transactions on Nuclear Science, 2000, 47, 1463-1467.	1.2	0

#	ARTICLE	IF	CITATIONS
199	A subharmonic front-end in SiGe:C technology for 94-GHz imaging arrays. International Journal of Microwave and Wireless Technologies, 2009, 1, 361-368.	1.5	0
200	Silicon-based Sources and Detectors for Terahertz Applications. , 2014, , .		0
201	All-Silicon Based Terahertz Integrated Components: The Next Generation of Terahertz Imaging Systems. , 2014, , .		0
202	Efficiency Enhancement for THz Power Amplifier. , 2015, , 135-154.		0
203	Real100G.RF: A Fully Packaged 240 GHz Transmitter with In-Antenna Power Combining in 0.13 μ m SiGe Technology. Frequenz, 2017, 71, 415-425.	0.6	0
204	A novel approach of aqueous solution analysis using a fully-integrated terahertz near-field sensor. , 2017, , .		0
205	Studies on PCA for Breast Tissue Segmentation. , 2018, , .		0
206	The Influence of RF Front-End Imperfections on Performance of a 220-260 GHz Tunable M-QAM Wireless Link in SiGe HBT Technology. , 2019, , .		0
207	Silicon-integrated Single Pixel Terahertz Camera. , 2020, , .		0
208	THz transmission experiments â€“ A data rate of 80 Gbps was demonstrated using Kasami codes. , 2021, , .		0
209	Towards the next generation of CERN radiation monitoring front end ASICs. Journal of Instrumentation, 2022, 17, C04029.	0.5	0