

Domenico Pepe

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57
papers

659
citations

13
h-index

23
g-index

67
ext. papers

828
ext. citations

2.5
avg, IF

4.16
L-index

#	Paper	IF	Citations
57	SoC CMOS UWB Pulse Radar Sensor for Contactless Respiratory Rate Monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011 , 5, 503-10	5.1	151
56	. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 344-356	5.5	51
55	13 GHz CMOS Active Inductor LC VCO. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 138-140	4.6	35
54	UWB CMOS Monocycle Pulse Generator. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 2654-2664	3.9	33
53	22.7-dB Gain -19.7 -dBm 1 ICP $\{1\}$ UWB CMOS LNA. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009 , 56, 689-693	3.5	27
52	32 dB Gain 28 nm Bulk CMOS W-Band LNA. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 55-57	2.6	24
51	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. <i>International Journal of Telemedicine and Applications</i> , 2008 , 328597	2.6	22
50	Microwave Active Inductors. <i>IEEE Microwave and Wireless Components Letters</i> , 2009 , 19, 461-463	2.6	19
49	A 90nm CMOS SoC UWB pulse radar for respiratory rate monitoring 2011 ,		18
48	Wearable system-on-a-chip UWB radar for health care and its application to the safety improvement of emergency operators. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2651-4		18
47	50 GHz mm-Wave CMOS Active Inductor. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 254-256	2.6	14
46	1.29-W/mm ² 23-dBm 66-GHz Power Amplifier in 55-nm SiGe BiCMOS With In-Line Coplanar Transformer Power Splitters and Combiner. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 1146-1148	2.6	13
45	LC-active VCO for CMOS RF transceivers. <i>International Journal of Circuit Theory and Applications</i> , 2010 , 38, 69-84	2	13
44	Performance and Trends in Millimetre-Wave CMOS Oscillators for Emerging Wireless Applications. <i>International Journal of Microwave Science and Technology</i> , 2013 , 2013, 1-6		12
43	Analyses and techniques for phase noise reduction in CMOS Colpitts oscillator topology. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 616-638	2	11
42	CMOS UWB Multiplier. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011 , 58, 570-574	3.5	11
41	Enabling technology for heart health wireless assistance 2010 ,		11

40	60-GHz transceivers for wireless HD uncompressed video communication in nano-era CMOS technology 2010 ,		11
39	High-Frequency CMOS Active Inductor: Design Methodology and Noise Analysis. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 1123-1136	2.6	10
38	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1495-1504	3.9	9
37	Planar Differential Antenna Design and Integration With Pulse Radar Microchip Sensor. <i>IEEE Sensors Journal</i> , 2014 , 14, 2477-2487	4	9
36	Analyses and design of 95-GHz SoC CMOS radiometers for passive body imaging. <i>Analog Integrated Circuits and Signal Processing</i> , 2013 , 77, 373-383	1.2	9
35	Comparative analyses of phase noise in 28 nm CMOS LC oscillator circuit topologies: Hartley, Colpitts, and common-source cross-coupled differential pair. <i>Scientific World Journal, The</i> , 2014 , 2014, 421321	2.2	9
34	Planar Differential Antenna for Short-Range UWB Pulse Radar Sensor. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 1527-1530	3.8	9
33	Analysis of Phase Noise in 28 nm CMOS LC Oscillator Differential Topologies: Armstrong, Colpitts, Hartley and Common-Source Cross-Coupled Pair. <i>Journal of Circuits, Systems and Computers</i> , 2015 , 24, 1550052	0.9	8
32	Feasibility study of a low-cost system-on-a-chip UWB pulse radar on silicon for the heart monitoring 2007 ,		7
31	System-Level Simulations Investigating the System-on-Chip Implementation of 60-GHz Transceivers for Wireless Uncompressed HD Video Communications		7
30	Phase Noise comparative analysis of LC oscillators in 28-nm CMOS through the Impulse Sensitivity Function 2013 ,		6
29	Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview 2007 ,		6
28	A Novel LNA Topology with Transformer-based Input Integrated Matching and its 60-GHz Millimeter-wave CMOS 65-nm Design 2007 ,		6
27	A novel phase shifter for 60 GHz phased arrays 2015 ,		5
26	Sub-100 ps monocycle pulses for 5G UWB communications 2016 ,		5
25	67 GHz three-spiral transformer CMOS oscillator. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1798-1813	2	5
24	72 GHz CMOS LNA with transformer-based input integrated matching 2015 ,		4
23	On-Chip Millimeter-Wave Cold-Source Noise Figure Measurements With PNA-X. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 3399-3401	5.2	4

22	UWB 3.1-10.6 GHz CMOS Transmitter for System-on-a-chip Nano-Power Pulse Radars 2007 ,		4
21	Comparative analyses of phase noise in differential oscillator topologies in 28 nm CMOS technology 2014 ,		3
20	Monitoring respiratory pattern in adult and infant via contactless detection of thorax and abdomen movements through SoC UWB pulse radar sensor 2014 ,		3
19	Transformer-coupled E-network differential CMOS oscillator circuit topology. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 407-418	2	3
18	Design Variations on Planar Differential Antenna with Potential for Multiple, Wide, and Narrow Band Coverage. <i>International Journal of Antennas and Propagation</i> , 2015 , 2015, 1-13	1.2	3
17	0.4V low-power 60-GHz oscillator in 65nm CMOS 2012 ,		3
16	CMOS correlation receiver for UWB pulse radar 2009 ,		3
15	Analyses and techniques for phase noise reduction in CMOS Hartley oscillator topology. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1993-2016	2	2
14	A novel differential Colpitts CMOS oscillator circuit topology 2016 ,		2
13	50GHz active-LC CMOS oscillator: Theoretical study and experimental proofs. <i>Radio Science</i> , 2017 , 52, 1117-1128	1.4	2
12	Analyses of phase noise reduction techniques in CMOS Colpitts oscillator topology at the mm-waves: Noise filter and optimum current density 2015 ,		2
11	2015 ,		2
10	UWB pulse radio transceivers and antennas: Considerations on design and implementation 2014 ,		2
9	Complements on phase noise analysis and design of CMOS ring oscillators 2012 ,		2
8	System-on-a-Chip Radio Transceivers for 60-GHz Wireless Body-Centric Communications 2014 , 177-187		2
7	Phase noise analysis in CMOS differential Armstrong oscillator topology. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1697-1705	2	2
6	Transformer-based input integrated matching in cascode Amplifier: Circuit analysis and comparison with inductive degeneration 2016 ,		2
5	50 GHz LC-active oscillator in 65 nm CMOS 2015 ,		1

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| 4 | Millimeter-wave high-Q active inductor in 65nm CMOS 2012 , | | 1 |
| 3 | System-on-a-Chip UWB Radar Sensor for Contactless Respiratory Monitoring: Technology and Applications 2014 , 67-81 | | 1 |
| 2 | On-Body Characterization of Planar Differential Antennas for Multiple, Wide, and Narrow Bands. <i>International Journal of Antennas and Propagation</i> , 2016 , 2016, 1-9 | 1.2 | 1 |
| 1 | System-on-a-chip pulse radar for contactless motion sensing in human-machine smart interfaces 155-169 | | |