

Domenico Pepe

List of Publications by Year in descending order

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67
papers

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566801

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525886

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67
all docs

67
docs citations

67
times ranked

855
citing authors

#	ARTICLE	IF	CITATIONS
1	SoC CMOS UWB Pulse Radar Sensor for Contactless Respiratory Rate Monitoring. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 503-510.	2.7	198
2	Two mm-Wave Vector Modulator Active Phase Shifters With Novel IQ Generator in 28 nm FDSOI CMOS. IEEE Journal of Solid-State Circuits, 2017, 52, 344-356.	3.5	92
3	13 GHz CMOS Active Inductor LC VCO. IEEE Microwave and Wireless Components Letters, 2012, 22, 138-140.	2.0	47
4	UWB CMOS Monocycle Pulse Generator. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2654-2664.	3.5	44
5	32 dB Gain 28 nm Bulk CMOS W-Band LNA. IEEE Microwave and Wireless Components Letters, 2015, 25, 55-57.	2.0	35
6	A 90nm CMOS SoC UWB pulse radar for respiratory rate monitoring. , 2011, , .		33
7	22.7-dB Gain -19.7 -dBm $ICP_{1\{m\ dB\}}$ UWB CMOS LNA. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 689-693.	2.2	31
8	Wearable System-on-a-Chip UWB Radar for Health Care and its Application to the Safety Improvement of Emergency Operators. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2651-4.	0.5	26
9	Microwave Active Inductors. IEEE Microwave and Wireless Components Letters, 2009, 19, 461-463.	2.0	25
10	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. International Journal of Telemedicine and Applications, 2008, 2008, 1-10.	1.1	24
11	50 GHz mm-Wave CMOS Active Inductor. IEEE Microwave and Wireless Components Letters, 2014, 24, 254-256.	2.0	22
12	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. IEEE Microwave and Wireless Components Letters, 2017, 27, 1146-1148.	2.0	19
13	Analyses and techniques for phase noise reduction in CMOS Colpitts oscillator topology. International Journal of Circuit Theory and Applications, 2016, 44, 616-638.	1.3	18
14	System-Level Simulations Investigating the System-on-Chip Implementation of 60 -GHz Transceivers for Wireless Uncompressed HD Video Communications. , 0, , .		18
15	LC-Active VCO for CMOS RF transceivers. International Journal of Circuit Theory and Applications, 2010, 38, 69-84.	1.3	17
16	Analyses and design of 95 -GHz SoC CMOS radiometers for passive body imaging. Analog Integrated Circuits and Signal Processing, 2013, 77, 373-383.	0.9	16
17	Performance and Trends in Millimetre-Wave CMOS Oscillators for Emerging Wireless Applications. International Journal of Microwave Science and Technology, 2013, 2013, 1-6.	0.6	16
18	Transformer-Based Input Integrated Matching in Cascode Amplifiers: Analytical Proofs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 1495-1504.	3.5	16

#	ARTICLE	IF	CITATIONS
19	Enabling technology for heart health wireless assistance. , 2010, , .		14
20	60-GHz transceivers for wireless HD uncompressed video communication in nano-era CMOS technology. , 2010, , .		14
21	Comparative Analyses of Phase Noise in 28-Å€%nm CMOS LC Oscillator Circuit Topologies: Hartley, Colpitts, and Common-Source Cross-Coupled Differential Pair. Scientific World Journal, The, 2014, 2014, 1-13.	0.8	14
22	High-Frequency CMOS Active Inductor: Design Methodology and Noise Analysis. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 1123-1136.	2.1	14
23	Feasibility study of a low-cost system-on-a-chip UWB pulse radar on silicon for the heart monitoring. , 2007, , .		13
24	Analysis of Phase Noise in 28 nm CMOS LC Oscillator Differential Topologies: Armstrong, Colpitts, Hartley and Common-Source Cross-Coupled Pair. Journal of Circuits, Systems and Computers, 2015, 24, 1550052.	1.0	12
25	CMOS UWB Multiplier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 570-574.	2.2	11
26	Planar Differential Antenna for Short-Range UWB Pulse Radar Sensor. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1527-1530.	2.4	11
27	A Novel LNA Topology with Transformer-based Input Integrated Matching and its 60-GHz Millimeter-wave CMOS 65-nm Design. , 2007, , .		10
28	UWB 3.1-10.6 GHz CMOS Transmitter for System-on-a-chip Nano-Power Pulse Radars. , 2007, , .		10
29	Planar Differential Antenna Design and Integration With Pulse Radar Microchip Sensor. IEEE Sensors Journal, 2014, 14, 2477-2487.	2.4	9
30	Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview. , 2007, , .		8
31	Phase Noise comparative analysis of LC oscillators in 28-nm CMOS through the Impulse Sensitivity Function. , 2013, , .		8
32	On-Chip Millimeter-Wave Cold-Source Noise Figure Measurements With PNA-X. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3399-3401.	2.4	8
33	72 GHz CMOS LNA with transformer-based input integrated matching. , 2015, , .		7
34	Sub-100 ps monocycle pulses for 5G UWB communications. , 2016, , .		7
35	A novel phase shifter for 60 GHz phased arrays. , 2015, , .		6
36	67-Å€%GHz three-Å€%spiral transformer CMOS oscillator. International Journal of Circuit Theory and Applications, 2016, 44, 1798-1813.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Monitoring respiratory pattern in adult and infant via contactless detection of thorax and abdomen movements through SoC UWB pulse radar sensor. , 2014, , .		5
38	A 78.8–92.8 GHz 4-bit 0–360° active phase shifter in 28nm FDSOI CMOS with 2.3 dB average peak gain. , 2015, , .		5
39	System-on-a-Chip Radio Transceivers for 60-GHz Wireless Body-Centric Communications. , 2014, , 177-187.		5
40	0.4V low-power 60-GHz oscillator in 65nm CMOS. , 2012, , .		4
41	Comparative analyses of phase noise in differential oscillator topologies in 28 nm CMOS technology. , 2014, , .		4
42	Transformer-based input integrated matching in cascode Amplifier: Circuit analysis and comparison with inductive degeneration. , 2016, , .		4
43	Analyses and techniques for phase noise reduction in CMOS Hartley oscillator topology. International Journal of Circuit Theory and Applications, 2017, 45, 1993-2016.	1.3	4
44	Transformerâ€œcoupled Î€â€œnetwork differential CMOS oscillator circuit topology. International Journal of Circuit Theory and Applications, 2017, 45, 407-418.	1.3	4
45	CMOS correlation receiver for UWB pulse radar. , 2009, , .		3
46	Design Variations on Planar Differential Antenna with Potential for Multiple, Wide, and Narrow Band Coverage. International Journal of Antennas and Propagation, 2015, 2015, 1-13.	0.7	3
47	Phase noise analysis in CMOS differential Armstrong oscillator topology. International Journal of Circuit Theory and Applications, 2016, 44, 1697-1705.	1.3	3
48	Millimeter-wave high-Q active inductor in 65nm CMOS. , 2012, , .		2
49	Performances and trends in millimeter-wave CMOS voltage controlled oscillators. , 2012, , .		2
50	Complements on phase noise analysis and design of CMOS ring oscillators. , 2012, , .		2
51	UWB pulse radio transceivers and antennas: Considerations on design and implementation. , 2014, , .		2
52	Analyses of phase noise reduction techniques in CMOS Colpitts oscillator topology at the mm-waves: Noise filter and optimum current density. , 2015, , .		2
53	Analyses of phase noise reduction techniques in CMOS Colpitts oscillator topology at the mm-waves: Inductive degeneration and optimum current density. , 2015, , .		2
54	A novel differential Colpitts CMOS oscillator circuit topology. , 2016, , .		2

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55	50 GHz active LC CMOS oscillator: Theoretical study and experimental proofs. Radio Science, 2017, 52, 1117-1128.	0.8	2
56	Feasibility study including detector non-idealities of a 95-GHz CMOS SoC radiometer for passive imaging. , 2012, , .		1
57	32 dB gain W-band LNA in 28 nm bulk CMOS. , 2014, , .		1
58	50 GHz LC-active oscillator in 65 nm CMOS. , 2015, , .		1
59	Analyses of phase noise reduction techniques in CMOS Hartley oscillator topology at the mm-waves: Inductive degeneration and optimum current density. , 2015, , .		1
60	Analyses of phase noise reduction techniques in CMOS Hartley oscillator topology at the mm-waves: Noise filter and optimum current density. , 2015, , .		1
61	On-Body Characterization of Planar Differential Antennas for Multiple, Wide, and Narrow Bands. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	0.7	1
62	60 GHz CMOS VCO with transformer coupling network. , 2016, , .		1
63	System-on-a-Chip UWB Radar Sensor for Contactless Respiratory Monitoring: Technology and Applications. , 2014, , 67-81.		1
64	System-on-a-chip pulse radar for contactless motion sensing in human-machine smart interfaces. , 0, , 155-169.		0
65	A compact 67 GHz oscillator in 65nm CMOS. , 2015, , .		0
66	A novel differential Hartley CMOS oscillator circuit topology. , 2016, , .		0
67	Design and test of W-band passive circuit components in 28nm bulk CMOS technology. , 2016, , .		0