

# Giuseppe Scotti

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108 papers	915 citations	16 h-index	24 g-index
135 ext. papers	1,193 ext. citations	2.3 avg, IF	4.59 L-index

#	Paper	IF	Citations
108	Leakage Power Analysis Attacks: A Novel Class of Attacks to Nanometer Cryptographic Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 355-367	3.9	68
107	The VCG-CCII: a novel building block and its application to capacitance multiplication. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2009</b> , 58, 55-59	1.2	38
106	Effectiveness of Leakage Power Analysis Attacks on DPA-Resistant Logic Styles Under Process Variations. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 429-442	3.9	36
105	A novel low-voltage low-power fully differential voltage and current gained CCII for floating impedance simulations. <i>Microelectronics Journal</i> , <b>2009</b> , 40, 20-25	1.8	34
104	0.9-V Class-AB Miller OTA in 0.35- $\mu\text{m}$ CMOS With Threshold-Lowered Non-Tailed Differential Pair. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2017</b> , 64, 1740-1747	3.9	31
103	88- $\mu\text{S}$ A 1-MHz Stray-Insensitive CMOS Current-Mode Interface IC for Differential Capacitive Sensors. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1905-1916	3.9	29
102	Exploiting the Body of MOS Devices for High Performance Analog Design. <i>IEEE Circuits and Systems Magazine</i> , <b>2011</b> , 11, 8-23	3.2	29
101	Linearization Technique for Source-Degenerated CMOS Differential Transconductors. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2007</b> , 54, 848-852		28
100	0.9-V CMOS cascode amplifier with body-driven gain boosting. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 37, 193-202	2	25
99	A novel yield optimization technique for digital CMOS circuits design by means of process parameters run-time estimation and body bias active control. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2005</b> , 13, 630-638	2.6	25
98	Delay-Based Dual-Rail Precharge Logic. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2011</b> , 19, 1147-1153	2.6	24
97	Design Solutions for Sample-and-Hold Circuits in CMOS Nanometer Technologies. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2009</b> , 56, 459-463	3.5	24
96	Biasing technique via bulk terminal for minimum supply CMOS amplifiers. <i>Electronics Letters</i> , <b>2005</b> , 41, 779	1.1	20
95	Low power DDA-based instrumentation amplifier for neural recording applications in 65 nm CMOS. <i>AEU - International Journal of Electronics and Communications</i> , <b>2018</b> , 92, 30-35	2.8	19
94	Analysis and Implementation of a Minimum-Supply Body-Biased CMOS Differential Amplifier Cell. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2009</b> , 17, 172-180	2.6	18
93	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2017</b> , 25, 3509-3520	2.6	17
92	Secure Double Rate Registers as an RTL Countermeasure Against Power Analysis Attacks. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2018</b> , 26, 1368-1376	2.6	16

91	Analysis of data dependence of leakage current in CMOS cryptographic hardware <b>2007</b> ,		16
90	MMIC yield optimisation by design centring and off-chip controllers. <i>IET Circuits, Devices and Systems</i> , <b>2005</b> , 152, 54		16
89	Avoiding the Gain-Bandwidth Trade Off in Feedback Amplifiers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2011</b> , 58, 2108-2113	3.9	15
88	Univariate Power Analysis Attacks Exploiting Static Dissipation of Nanometer CMOS VLSI Circuits for Cryptographic Applications. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2017</b> , 5, 329-339	4.1	14
87	A 0.3 V, Rail-to-Rail, Ultralow-Power, Non-Tailed, Body-Driven, Sub-Threshold Amplifier. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2528	2.6	13
86	A Novel Framework to Estimate the Path Delay Variability On the Back of an Envelope via the Fan-Out-of-4 Metric. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2017</b> , 64, 2073-2085	3.9	12
85	<b>2007</b> ,		12
84	A 0.3 V Rail-to-Rail Ultra-Low-Power OTA with Improved Bandwidth and Slew Rate. <i>Journal of Low Power Electronics and Applications</i> , <b>2021</b> , 11, 19	1.7	12
83	0.6-V CMOS cascode OTA with complementary gate-driven gain-boosting and forward body bias. <i>International Journal of Circuit Theory and Applications</i> , <b>2020</b> , 48, 15-27	2	12
82	Design and validation through a frequency-based metric of a new countermeasure to protect nanometer ICs from side-channel attacks. <i>Journal of Cryptographic Engineering</i> , <b>2015</b> , 5, 269-288	1.9	11
81	Template attacks exploiting static power and application to CMOS lightweight crypto-hardware. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 229-241	2	11
80	High-CMRR Current Amplifier Architecture and Its CMOS Implementation. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2006</b> , 53, 1118-1122		11
79	SC-DDPL: A Novel Standard-Cell Based Approach for Counteracting Power Analysis Attacks in the Presence of Unbalanced Routing. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 2317-2330	3.9	10
78	CMOS High-CMRR Current Output Stages. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2007</b> , 54, 745-749		10
77	Implementation of the PRESENT-80 block cipher and analysis of its vulnerability to Side Channel Attacks Exploiting Static Power <b>2016</b> ,		10
76	Power analysis of a chaos-based Random Number Generator for cryptographic security <b>2009</b> ,		9
75	The Universal Circuit Simulator: A Mixed-Signal Approach to $n$ -Port Network and Impedance Synthesis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2007</b> , 54, 2178-2183	3.9	9
74	TEL Logic Style as a Countermeasure Against Side-Channel Attacks: Secure Cells Library in 65nm CMOS and Experimental Results. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2018</b> , 1-11	3.9	8

73	A novel CMOS logic style with data independent power consumption		8
72	A Novel 0.5 V MCML D-Flip-Flop Topology Exploiting Forward Body Bias Threshold Lowering. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 560-564	3.5	8
71	High-tuning-range CMOS band-pass IF filter based on a low-Q cascaded biquad optimization technique. <i>International Journal of Circuit Theory and Applications</i> , <b>2015</b> , 43, 1615-1636	2	7
70	Leakage Power Analysis attacks against a bit slice implementation of the Serpent block cipher <b>2014</b> ,		7
69	<b>2011</b> ,		7
68	Enhancing power analysis attacks against cryptographic devices. <i>IET Circuits, Devices and Systems</i> , <b>2008</b> , 2, 298	1.1	7
67	Necessary and sufficient conditions for the stability of microwave amplifiers with variable termination impedances. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 2580-2586	4.1	7
66	A synthesis-oriented approach to design microwave multidevice amplifiers with a prefixed stability margin <b>2000</b> , 10, 102-104		7
65	A Novel Ultra-Compact FPGA PUF: The DD-PUF. <i>Cryptography</i> , <b>2021</b> , 5, 23	1.9	7
64	A High-Speed Low-Voltage Phase Detector for Clock Recovery From NRZ Data. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2007</b> , 54, 1626-1635		6
63	Sub-1V CMOS OTA with Body-driven Gain Boosting <b>2007</b> ,		6
62	A synthesis-oriented approach to design stable circuits. <i>Microwave and Optical Technology Letters</i> , <b>1999</b> , 23, 354-357	1.2	6
61	A Novel Standard-Cell-Based Implementation of the Digital OTA Suitable for Automatic Place and Route. <i>Journal of Low Power Electronics and Applications</i> , <b>2021</b> , 11, 42	1.7	5
60	0.5 V CMOS Inverter-Based Transconductance Amplifier with Quiescent Current Control. <i>Journal of Low Power Electronics and Applications</i> , <b>2021</b> , 11, 37	1.7	5
59	A Tree-Based Architecture for High-Performance Ultra-Low-Voltage Amplifiers. <i>Journal of Low Power Electronics and Applications</i> , <b>2022</b> , 12, 12	1.7	5
58	Multivariate Analysis Exploiting Static Power on Nanoscale CMOS Circuits for Cryptographic Applications. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 79-94	0.9	4
57	Delay models and design guidelines for MCML gates with resistor or PMOS load. <i>Microelectronics Journal</i> , <b>2020</b> , 99, 104755	1.8	4
56	Novel measurements setup for attacks exploiting static power using DC pico-ammeter <b>2017</b> ,		4

55	Leakage Power Analysis attacks: Effectiveness on DPA resistant logic styles under process variations <b>2011</b> ,		4
54	Unity-Gain Amplifier With Theoretically Zero Gain Error. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2008</b> , 57, 1431-1437	5.2	4
53	Discussion and new proofs of the conditional stability criteria for multidevice microwave amplifiers. <i>IET Microwaves Antennas and Propagation</i> , <b>2006</b> , 153, 177		4
52	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2005</b> , 13, 191-200	2.6	4
51	Stability Criterion for Two-Port Network With Input and Output Terminations Varying in Elliptic Regions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 4049-4055	4.1	4
50	A Novel Dual-Output CCII-Based Single-Ended to Differential Converter. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2005</b> , 43, 87-90	1.2	4
49	Low power switched-resistor band-pass filter for neural recording channels in 130nm CMOS. <i>Heliyon</i> , <b>2020</b> , 6, e04723	3.6	4
48	Klessydra-T: Designing Vector Coprocessors for Multithreaded Edge-Computing Cores. <i>IEEE Micro</i> , <b>2021</b> , 41, 64-71	1.8	4
47	CMOS Non-tailed differential pair. <i>International Journal of Circuit Theory and Applications</i> , <b>2016</b> , 44, 1468-1477	4	
46	A Novel OTA Architecture Exploiting Current Gain Stages to Boost Bandwidth and Slew-Rate. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1638	2.6	4
45	A Standard-Cell-Based CMFB for Fully Synthesizable OTAs. <i>Journal of Low Power Electronics and Applications</i> , <b>2022</b> , 12, 27	1.7	4
44	A Power Efficient Frequency Divider With 55 GHz Self-Oscillating Frequency in SiGe BiCMOS. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1968	2.6	3
43	An improved reversed miller compensation technique for three-stage CMOS OTAs with double pole-zero cancellation and almost single-pole frequency response. <i>International Journal of Circuit Theory and Applications</i> , <b>2020</b> , 48, 1990-2005	2	3
42	Adaptive frequency compensation for maximum and constant bandwidth feedback amplifiers. <i>International Journal of Circuit Theory and Applications</i> , <b>2013</b> , 41, 424-440	2	3
41	Constant and maximum bandwidth feedback amplifier with adaptive frequency compensation <b>2012</b> ,		3
40	Impact of Process Variations on LPA Attacks Effectiveness <b>2009</b> ,		3
39	A Multi-Folded MCML for Ultra-Low-Voltage High-Performance in Deeply Scaled CMOS. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 4696-4706	3.9	3
38	A Biasing Approach to Design Ultra-Low-Power Standard-Cell-Based Analog Building Blocks for Nanometer SoCs. <i>IEEE Access</i> , <b>2022</b> , 10, 25892-25900	3.5	3

37	A Novel Very Low Voltage Topology to implement MCML XOR Gates <b>2018</b> ,		2
36	<b>2011</b> ,		2
35	CMOS Miller OTA with Body-Biased Output Stage <b>2007</b> ,		2
34	An active balun for high-CMRR IC design <b>2005</b> ,		2
33	CMOS single-to-differential current amplifier		2
32	A synthesis-oriented conditional stability criterion for microwave multidevice circuits with complex termination impedances <b>2000</b> , 10, 460-462		2
31	A Statistical Model of Logic Gates for Monte Carlo Simulation Including On-Chip Variations. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 516-525	0.9	2
30	Area-Efficient Low-Power Bandpass Gm-C Filter for Epileptic Seizure Detection in 130nm CMOS <b>2019</b> ,		2
29	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 680-691	3.9	2
28	Distributed switched-resistor approach for high-Q biquad filters. <i>AEU - International Journal of Electronics and Communications</i> , <b>2021</b> , 138, 153894	2.8	2
27	10-GHz Fully Differential Sallen-Key Lowpass Biquad Filters in 55nm SiGe BiCMOS Technology. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 563	2.6	1
26	Reply to "Comments on Avoiding the Gain-Bandwidth Trade Off in Feedback Amplifiers". <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2011</b> , 58, 2117-2117	3.9	1
25	Autotuning technique for CMOS current mode capacitive sensor interfaces <b>2012</b> ,		1
24	Delay-based dual-rail pre-charge logic <b>2009</b> ,		1
23	<b>2008</b> ,		1
22	Very Low Voltage CMOS Two-stage Amplifier <b>2007</b> ,		1
21	Behavioral model of a noisy VCO for efficient time-domain simulation. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 40, 352-355	1.2	1
20	Design of stable microwave multidevice circuits with complex termination impedances. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2002</b> , 12, 360-366	1.5	1

19	A new procedure for nonlinear statistical model extraction of GaAs FET-integrated circuits. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2003</b> , 13, 348-356	1.5	1
18	Bias correction and yield optimization of MMICs with external digital control. <i>Microwave and Optical Technology Letters</i> , <b>2001</b> , 31, 134-137	1.2	1
17	A Novel Ultra-Compact FPGA-compatible TRNG Architecture exploiting Latched Ring Oscillators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
16	On Practical Second-Order Power Analysis Attacks for Block Ciphers. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 155-170	0.9	1
15	A Very-Low-Voltage Frequency Divider in Folded MOS Current Mode Logic With Complementary n- and p-type Flip-Flops. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2021</b> , 29, 998-1008	2.6	1
14	A Novel 0.6V MCML D-Latch Topology exploiting Dynamic Body Bias Threshold Lowering <b>2018</b> ,		1
13	A SiGe HBT 6th-Order 10 GHz Inductor-Less Anti-Aliasing Low-Pass Filter for High-Speed ATl Digitizers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 1-14	3.9	1
12	A Detailed Model of the Switched-Resistor Technique. <i>IEEE Open Journal of Circuits and Systems</i> , <b>2021</b> , 2, 497-507	1.7	1
11	A Lightweight FPGA compatible weak-PUF primitive based on XOR gates. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2022</b> , 1-1	3.5	1
10	A 0.5 V Sub-Threshold CMOS Current-Controlled Ring Oscillator for IoT and Implantable Devices. <i>Journal of Low Power Electronics and Applications</i> , <b>2022</b> , 12, 16	1.7	1
9	A bandwidth-compensated transimpedance amplifier for multigigabit optical receivers. <i>Microwave and Optical Technology Letters</i> , <b>2001</b> , 30, 79-81	1.2	0
8	80dB tuning range transimpedance amplifier exploiting the Switched-Resistor approach. <i>AEU - International Journal of Electronics and Communications</i> , <b>2022</b> , 149, 154196	2.8	0
7	Process and terminations variations aware stability criteria for microwave amplifiers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2013</b> , 23, 619-626	1.5	
6	Extraction of CAD-compatible statistical nonlinear models of GaAs HEMT MMICs. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 2163-2166	1.2	
5	Yield optimization design procedure of MMIC transimpedance amplifiers for multigigabit optical receivers. <i>Microwave and Optical Technology Letters</i> , <b>2000</b> , 26, 110-114	1.2	
4	Yield Optimization by Means of Process Parameters Estimation: Comparison Between ABB and ASV Techniques. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 119-128	0.9	
3	Differential Capacitance Analysis. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 338-347	0.9	
2	SC-DDPL as a Countermeasure against Static Power Side-Channel Attacks. <i>Cryptography</i> , <b>2021</b> , 5, 16	1.9	

- <sup>1</sup> 0.5-V Frequency Dividers in Folded MCML Exploiting Forward Body Bias: Analysis and Comparison. *Electronics (Switzerland)*, **2021**, 10, 1383 2.6