## Alfio D Grasso

List of Publications by Year in descending order

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ALEIO D CRASSO

#	Article	IF	CITATIONS
1	Advances in Reversed Nested Miller Compensation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1459-1470.	0.1	153
2	0.7-V Three-Stage Class-AB CMOS Operational Transconductance Amplifier. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1807-1815.	5.4	105
3	Analytical comparison of frequency compensation techniques in three-stage amplifiers. International Journal of Circuit Theory and Applications, 2008, 36, 53-80.	2.0	88
4	Design Procedures for Three-Stage CMOS OTAs With Nested-Miller Compensation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 933-940.	0.1	85
5	Improved Reversed Nested Miller Frequency Compensation Technique With Voltage Buffer and Resistor. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 382-386.	2.2	84
6	A Review of Charge Pump Topologies for the Power Management of IoT Nodes. Electronics (Switzerland), 2019, 8, 480.	3.1	83
7	Autonomous Energy-Efficient Wireless Sensor Network Platform for Home/Office Automation. IEEE Sensors Journal, 2019, 19, 3501-3512.	4.7	74
8	Design Methodology of Subthreshold Three-Stage CMOS OTAs Suitable for Ultra-Low-Power Low-Area and High Driving Capability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1453-1462.	5.4	72
9	Three-Stage CMOS OTA for Large Capacitive Loads With Efficient Frequency Compensation Scheme. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 1044-1048.	2.2	68
10	High-Performance Four-Stage CMOS OTA Suitable for Large Capacitive Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2476-2484.	5.4	68
11	Analytical comparison of reversed nested Miller frequency compensation techniques. International Journal of Circuit Theory and Applications, 2010, 38, 709-737.	2.0	65
12	Remote monitoring system for stand-alone photovoltaic power plants: The case study of a PV-powered outdoor refrigerator. Energy Conversion and Management, 2014, 78, 862-871.	9.2	59
13	Optimized Active Single-Miller Capacitor Compensation With Inner Half-Feedforward Stage for Very High-Load Three-Stage OTAs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1349-1359.	5.4	54
14	0.9-V Class-AB Miller OTA in 0.35- \$mu ext{m}\$ CMOS With Threshold-Lowered Non-Tailed Differential Pair. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1740-1747.	5.4	48
15	Description and performance analysis of a flexible photovoltaic/thermal (PV/T) solar system. Renewable Energy, 2019, 137, 144-156.	8.9	41
16	High-Performance Three-Stage Single-Miller CMOS OTA With No Upper Limit of <inline-formula> <tex-math notation="LaTeX">\${C}_{L}\$ </tex-math> </inline-formula> . IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1529-1533.	3.0	36
17	Comparison of the Frequency Compensation Techniques for CMOS Two-Stage Miller OTAs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1099-1103.	3.0	33
18	Sub-Femto-Farad Resolution Electronic Interfaces for Integrated Capacitive Sensors: A Review. IEEE Access, 2020, 8, 153969-153980.	4.2	33

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19	Single Miller capacitor frequency compensation with nulling resistor for threeâ€stage amplifiers. International Journal of Circuit Theory and Applications, 2008, 36, 825-837.	2.0	31
20	A Subthreshold Cross-Coupled Hybrid Charge Pump for 50-mV Cold-Start. IEEE Access, 2020, 8, 188959-188969.	4.2	31
21	Optimized Charge Pump With Clock Booster for Reduced Rise Time or Silicon Area. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1977-1981.	3.0	30
22	A Review of Power Management Integrated Circuits for Ultrasound-Based Energy Harvesting in Implantable Medical Devices. Applied Sciences (Switzerland), 2021, 11, 2487.	2.5	29
23	Self-Biased Dual-Path Push-Pull Output Buffer Amplifier for LCD Column Drivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 663-670.	5.4	27
24	Regulated Charge Pumps: A Comparative Study by Means of Verilog-AMS. Electronics (Switzerland), 2020, 9, 998.	3.1	26
25	Analysis and Implementation of a Minimum-Supply Body-Biased CMOS Differential Amplifier Cell. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 172-180.	3.1	25
26	Performance evaluation of a multistring photovoltaic module with distributed DC–DC converters. IET Renewable Power Generation, 2015, 9, 935-942.	3.1	25
27	Integrated Quenching-and-Reset Circuit for Single-Photon Avalanche Diodes. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 271-277.	4.7	24
28	Dual Push–Pull High-Speed Rail-to-Rail CMOS Buffer Amplifier for Flat-Panel Displays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1879-1883.	3.0	24
29	Charge Pumps for Ultra-Low-Power Applications: Analysis, Design, and New Solutions. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2895-2901.	3.0	24
30	A simple and effective design strategy to increase power conversion efficiency of linear charge pumps. International Journal of Circuit Theory and Applications, 2020, 48, 157-161.	2.0	23
31	Charge Pump Improvement for Energy Harvesting Applications by Node Pre-Charging. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3312-3316.	3.0	23
32	A 2.5-GHz DDFS-PLL With 1.8-MHz Bandwidth in 0.35-\$mu\$m CMOS. IEEE Journal of Solid-State Circuits, 2008, 43, 1403-1413.	5.4	21
33	Linear distribution of capacitance in Dickson charge pumps to reduce rise time. International Journal of Circuit Theory and Applications, 2020, 48, 555-566.	2.0	21
34	Two CMOS Current Feedback Operational Amplifiers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2007, 54, 944-948.	3.0	20
35	Microâ€scale inductorless maximum power point tracking DC–DC converter. IET Power Electronics, 2013, 6, 1634-1639.	2.1	20
36	Switched-Capacitor Power Management Integrated Circuit for Autonomous Internet of Things Node. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1455-1459	3.0	20

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37	A High-Performance Charge Pump Topology for Very-Low-Voltage Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1304-1308.	3.0	18
38	Improved single-miller passive compensation network for three-stage CMOS OTAs. Analog Integrated Circuits and Signal Processing, 2016, 86, 417-427.	1.4	16
39	Currentâ€mode bodyâ€biased switch to increase performance of linear charge pumps. International Journal of Circuit Theory and Applications, 2020, 48, 1864-1872.	2.0	16
40	Monitoring of solar cogenerative PVT power plants: Overview and a practical example. Sustainable Energy Technologies and Assessments, 2015, 10, 90-101.	2.7	15
41	Symbolic factorization methodology for multistage amplifier transfer functions. International Journal of Circuit Theory and Applications, 2016, 44, 38-59.	2.0	14
42	Ultra-Low Power Amplifiers for IoT Nodes. , 2018, , .		14
43	CMOS High-CMRR Current Output Stages. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 745-749.	2.2	13
44	High-Performance CMOS Pseudo-Differential Amplifier. , 0, , .		12
45	High-Drive and Linear CMOS Class-AB Pseudo-Differential Amplifier. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 112-116.	2.2	12
46	Active load with cross oupled bulk for highâ€gain highâ€CMRR nanometer CMOS differential stages. International Journal of Circuit Theory and Applications, 2019, 47, 1700-1704.	2.0	11
47	High-performance frequency compensation topology for four-stage OTAs. , 2014, , .		9
48	A Time-Based Electronic Front-End for a Capacitive Particle Matter Detector. Sensors, 2021, 21, 1840.	3.8	9
49	A Methodology to Derive a Symbolic Transfer Function for Multistage Amplifiers. IEEE Access, 2022, 10, 14062-14075.	4.2	9
50	Optimal energy management of a photovoltaic stand-alone dual battery system. , 2008, , .		8
51	High-Frequency Low-Current Second-Order Bandpass Active Filter Topology and Its Design in 28-nm FD-SOI CMOS. Journal of Low Power Electronics and Applications, 2020, 10, 27.	2.0	8
52	A Memory-Targeted Dynamic Reconfigurable Charge Pump to Achieve a Power Consumption Reduction in IoT Nodes. IEEE Access, 2021, 9, 41958-41964.	4.2	8
53	Power Efficiency Improvement of a Boost Converter Using a Coupled Inductor with a Fuzzy Logic Controller: Application to a Photovoltaic System. Applied Sciences (Switzerland), 2021, 11, 980.	2.5	8
54	The noise performance of CMOS Miller operational transconductance amplifiers with embedded currentâ€buffer frequency compensation. International Journal of Circuit Theory and Applications, 2017, 45, 457-465.	2.0	7

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55	Frequency Compensation of Three-Stage OTAs to Achieve Very Wide Capacitive Load Range. IEEE Access, 2022, 10, 70675-70687.	4.2	7
56	A novel MPPT charge regulator for a photovoltaic stand-alone telecommunication system. , 2008, , .		6
57	CMOS Nonâ€ŧailed differential pair. International Journal of Circuit Theory and Applications, 2016, 44, 1468-1477.	2.0	6
58	Single miller capacitor frequency compensation techniques: Theoretical comparison and critical review. International Journal of Circuit Theory and Applications, 2022, 50, 1462-1486.	2.0	6
59	A Bulk Current Regulation Technique for Dual-Branch Cross-Coupled Charge Pumps. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4128-4132.	3.0	6
60	CMOS current-steering DAC architectures based on the triple-tail cell. International Journal of Circuit Theory and Applications, 2008, 36, 233-246.	2.0	5
61	A new enhanced PSPICE implementation of the equivalent circuit model of SiPM detectors. , 2015, , .		5
62	Global impedance attenuation network for multistage OTAs driving a broad range of load capacitor. International Journal of Circuit Theory and Applications, 2020, 48, 181-197.	2.0	5
63	An Efficient AC-DC Converter in 28nm Si-Bulk CMOS Technology for Piezo-Powered Medical Implanted Devices. , 2021, , .		5
64	Two-Stage OTA With All Subthreshold MOSFETs and Optimum GBW to DC-Current Ratio. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3154-3158.	3.0	5
65	A 28 nm Bulk CMOS Fully Digital BPSK Demodulator for US-Powered IMDs Downlink Communications. Electronics (Switzerland), 2022, 11, 698.	3.1	5
66	The Dickson Charge Pump as a Signal Amplifier. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3476-3489.	5.4	5
67	A 0.63 pJ/bit Fully-Digital BPSK Demodulator for US-powered IMDs downlink in a 28-nm bulk CMOS technology. , 2022, , .		5
68	Single Miller capacitor frequency compensation with nulling resistor for three-stage amplifiers. , 2007, , .		4
69	Integrated Airborne Particle Matter Detector. , 2019, , .		4
70	CMOS Miller OTA with Body-Biased Output Stage. , 2007, , .		3
71	Estimation of in-cylinder pressure using spark plug discharge current measurements. , 2013, , .		3
72	Optimised design of ECL gates with power constraint. Electronics Letters, 2004, 40, 1169.	1.0	2

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73	Enhanced analytical model and output dynamic response of SiPM-Based electronic read-outs. , 2016, , .		2
74	A toolbox for the symbolic analysis and simulation of linear analog circuits. , 2017, , .		2
75	Three-stage single-miller CMOS OTA driving 10 nF with 1.46-MHz GBW. , 2018, , .		2
76	A Compact Temperature Sensor with a Resolution FoM of 1.82 pJ·K2. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	4.7	2
77	An Automatic Offset Calibration Method for Differential Charge-Based Capacitance Measurement. Journal of Low Power Electronics and Applications, 2021, 11, 22.	2.0	2
78	Dickson Charge Pump: Design Strategy for Optimum Efficiency. , 2021, , .		2
79	CMOS class AB single-to-differential transconductor. , 0, , .		1
80	Current-steering D/A converter based on triple tail cell. , 0, , .		1
81	Design of cascaded ECL gates with power constraint. Electronics Letters, 2006, 42, 211.	1.0	1
82	An advanced SOC model for a stand-alone telecommunication system. , 2008, , .		1
83	Optimized frequency compensation topology for low-power three-stage OTAs. , 2013, , .		1
84	A new accurate analytical expression for the SiPM transient response to single photons. , 2014, , .		1
85	Single-miller all-passive compensation network for three-stage OTAs. , 2015, , .		1
86	0.7-V bulk-driven three-stage class-AB OTA. , 2015, , .		1
87	A 0.003-mm2 50-mW three-stage amplifier driving 10-nF with 2.7-MHz GBW. , 2016, , .		1
88	Area-optimized sub-fF offset trimming circuit for capacitive MEMS interfaces. , 2017, , .		1
89	CMOS Differential Stage with Improved DC Gain, CMRR and PSRR Performance. , 2019, , .		1
90	Sub-fF Resolution Capacitive Amplifier For Particulate Matter Airborne Detection. , 2020, , .		1

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91	Comparison of the Wide-Frequency Range Dynamic Behavior of the Dickson and Cockcroft-Walton Voltage Multipliers. , 2021, , .		1
92	Double-Differential Amplifier for sEMG Measurement by Means of a Current-Mode Approach. IEEE Access, 2022, 10, 45870-45880.	4.2	1
93	Optimized design of ECL gates with a power constraint. , 0, , .		0
94	CMOS voltage feedback current amplifier. , 2007, , .		0
95	Monolithic quenching-and-reset circuit for single-photon avalanche diodes. , 2014, , .		0
96	195-nW 120-dB subthreshold CMOS OTA driving up to 200 pF and occupying only 4.4–10â^'3 mm2. , 2015, , .		0
97	Novel straightforward and effective extraction methodology for SiPM model parameters. , 2017, , .		0
98	Dickson Voltage Multiplier: Beyond the Switching Limits. , 2020, , .		0
99	Planar Capacitive Transducers for a Miniaturized Particulate Matter Detector. , 2022, , .		0