AIELLO ORAZIO

Overview
? Unit: ICT
? Role: Ricercatore
? Grade: Ricercatore t.d. art. 24 c. 3 lett. B Legge 240/10 (t.pieno) + 20%
? SSD: IINF-01/A (Elettronica)
? Scopus ID: 57212143527
? Unige Id: 717921
? Retrieved at: 2025-11-14T15:16:16.284201

Contact
? Email: orazio.aiello@unige.it
? Page: https://rubrica.unige.it/personale/UkJAUlho
? Locations: Opera Pia - padiglione D (ED161450401), 3´° piano, US161450401.III.025

Career
? Rd, 2021-12-01 ? 2026-02-28

Teaching
2025
? Vlsi Circuit Design (114749), Lm-29 - Electronic Engineering
? Analog Electronics (114746), Lm-29 - Electronic Engineering
? Analog Electronics (114746), Lm-29 - Electronic Engineering

2024
? Vlsi Circuit Design (114749), Lm-29 - Electronic Engineering
? Analog Electronics (114746), Lm-29 - Electronic Engineering
? Analog Electronics (114746), Lm-29 - Electronic Engineering

2023
? Microelectronics (106786), Lm-29 - Ingegneria Elettronica
? Integrated Electronics (106772), Lm-29 - Ingegneria Elettronica
? Elementi Di Elettronica (107827), L-P03 - Tecnologie Industriali

2022
? Integrated Electronics (106772), Lm-29 - Ingegneria Elettronica
? Distributed Electronic Systems And Technologies For Environmental Monitoring (94631), Lm-26 - Engineering For Natural Risk Management

2021
? Distributed Electronic Systems And Technologies For Environmental Monitoring (94631), Lm-26 - Engineering For Natural Risk Management

Scopus Metrics
? absolute; Docs: 86; Journals: 34; Conferences: 49; Citations: 956; H-index: 20
? 15 years (2010-2025); Docs: 84; Journals: 34; Conferences: 47; Citations: 952; H-index: 20
? 10 years (2015-2025); Docs: 77; Journals: 31; Conferences: 43; Citations: 873; H-index: 19
? 05 years (2020-2025); Docs: 59; Journals: 25; Conferences: 32; Citations: 505; H-index: 10

Scopus Products

1.
   ? Title: On Standard Cell-Based Design for Dynamic Voltage Comparators and Relaxation Oscillators
   ? Venue: Chips
   ? Year: 2025
   ? Type: Journal
   ? Subtype: Article
   ? Citations: 0
   ? DOI: 10.3390/chips4030031
   ? Scopus ID: 2-s2.0-105017076146
   ? eISSN: 26740729
   ? Volume: 4
   ? Issue: 3
   ? Authors: Aiello Orazio
   ? Keywords: dynamic leakage suppression logic | rail-to-rail dynamic voltage comparators | relaxation oscillators | standard cell-based design | supply voltage scalable IC design | ultra-low-power circuits | utra-low-voltage
   ? Quartile:
     2025:
     ? Engineering (miscellaneous) (Q3, rank 140, percentile 49)
     ? Computer Science (miscellaneous) (Q3, rank 104, percentile 40)
     ? Materials Science (miscellaneous) (Q3, rank 151, percentile 38)
   ? Source Id: 21101317176
   ? Author Ids: 57212143527
   ? Authoraffiliationids: 60025153
   ? Corresponding: Aiello O.
2.
   ? Title: A reduced effort design, low power, extremely compact, CMOS ADC based on voltage-to-time converter
   ? Venue: AEU International Journal of Electronics and Communications
   ? Year: 2025
   ? Type: Journal
   ? Subtype: Article
   ? Citations: 3
   ? DOI: 10.1016/j.aeue.2025.155790
   ? Scopus ID: 2-s2.0-105001875819
   ? Issn: 14348411
   ? eISSN: 16180399
   ? Volume: 196
   ? Authors: Di Patrizio Stanchieri Guido; Aiello Orazio; De Marcellis Andrea
   ? Keywords: High-synthesizable | Low-voltage low-power CMOS ADC | Voltage-to-Time converter
   ? Quartile:
     2025:
     ? Electrical and Electronic Engineering (Q1, rank 222, percentile 77)
   ? Source Id: 17683
   ? Author Ids: 57191657351;57212143527;23975554000
   ? Authoraffiliationids: 60018783;60025153;60018783
   ? Corresponding: Di Patrizio Stanchieri G.
3.
   ? Title: A 48 nW, Universal, Multi-Mode Gm-C Filter with a Frequency Range Tunability
   ? Venue: Electronics Switzerland
   ? Year: 2025
   ? Type: Journal

? Subtype: Article
? Citations: 0
? DOI: 10.3390/electronics14071334
? Scopus ID: 2-s2.0-105002307694
? eISSN: 20799292
? Volume: 14
? Issue: 7
? Authors: Namdari Ali; Aiello Orazio; Dolatshahi Mehdi; Caviglia Daniele D.
? Keywords: CMOS | Gm-C | low power | low voltage | tunability | universal filter
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
? Source Id: 21100829272
? Author Ids: 57217935624;57212143527;53063559900;7004012654
? Authoraffiliationids: 60025153;60025153;60026904;60025153
? Corresponding: Namdari A.

4.
? Title: Low Power Design of Approximate Adders Based on Inexact Full Adder
? Venue: Lecture Notes in Electrical Engineering
? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-71518-1_5
? Scopus ID: 2-s2.0-85215969233
? Issn: 18761100
? eISSN: 18761119
? Volume: 1263 Lnee
? Pages: 35-40
? Authors: Ibrahim Ali; Bzeih Fatima; Srour Oussama; Hijazi Zeinab; Aiello Orazio
? Keywords: Approximate Computing | Inexact Adders | Logic Gate Architectures | Low Power Design | VLSI circuits
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
? Source Id: 19700186822
? Author Ids: 57199654883;59527204300;59527428100;57188768487;57212143527
? Authoraffiliationids: 60112476;60112476;60112476;60112476;60025153
? Corresponding: Ibrahim A.

5.
? Title: 0.7 V, 215 nW Tunable Universal Gm-C Filter
? Venue: Lecture Notes in Electrical Engineering
? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1007/978-3-031-71518-1_6
? Scopus ID: 2-s2.0-85215957715
? Issn: 18761100
? eISSN: 18761119

? Volume: 1263 Lnee
? Pages: 41-47
? Authors: Namdari Ali; Aiello Orazio; Caviglia Daniele D.
? Keywords: CMOS | Gm-C | Inverter | Low-power | Tunablity | Universal filter
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
? Source Id: 19700186822
? Author Ids: 57217935624;57212143527;7004012654
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Namdari A.

6.
? Title: A Fully Integrated CMOS 0.3 V 335 nW PWM-Based Light-to-Digital Converter for Optoelectronic Sensing Systems in Biomedical Applications
? Venue: IEEE Sensors Letters
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Lsens.2025.3527759
? Scopus ID: 2-s2.0-85214885457
? eISSN: 24751472
? Volume: 9
? Issue: 2
? Authors: Stanchieri G. Di Patrizio; De Marcellis A.; Faccio M.; Palange E.; Aiello O.
? Keywords: Electromagnetic wave sensors | integrated photodiode | light-to-digital converter (LDC) | low-power | low-voltage | optoelectronic sensing system
? Quartile:
2025:
? Instrumentation (Q2, rank 70, percentile 63)
? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)
? Source Id: 21100976671
? Author Ids: 57191657351;23975554000;7003775870;6701392461;57212143527
? Authoraffiliationids: 60018783;60018783;60018783;60018783;60025153
? Corresponding: Stanchieri G.D.P.

7.
? Title: Sub-10nW, 73dB Gain, Inverter-Based Digital OTA with C-Muller Input Stage and Novel CMFB for Enhanced Performance in IoT Applications
? Venue: 2025 23rd IEEE Interregional Newcas Conference Newcas 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/NewCAS64648.2025.11107004
? Scopus ID: 2-s2.0-105015575577
? Pages: 573-577
? Authors: Sala Riccardo Della; Shokri Reza; Aiello Orazio; Caviglia Daniele D.; Scotti Giuseppe
? Keywords: Internet of Things | inverter-based | OTA | ultra-low voltage | ultralow power
? Source Id: 21101328533
? Author Ids: 57462337300;57224794408;57212143527;7004012654;35491669000
? Authoraffiliationids: 60032350;60025153;60025153;60025153;60032350
? Corresponding: Sala R.D.

8.
? Title: A 200 FOML, 0.3 V, and 2nW Fully Differential Bulk-Driven OTA Exploiting Current Mirrors
? Venue: 2025 23rd IEEE Interregional Newcas Conference Newcas 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/NewCAS64648.2025.11107128
? Scopus ID: 2-s2.0-105015512214
? Pages: 366-370
? Authors: Sala Riccardo Della; Ul Amin Noor; Aiello Orazio; Sidek Roslina Mohd; Rokhani Fakhrul Zaman; Tommasino Pasquale
? Keywords: biomedical | body-driven | fully differential | Internet-of-things | OTA | ultra-low power | ultra-low voltage
? Source Id: 21101328533
? Author Ids: 57462337300;60090688500;57212143527;35801306500;24483802400;6701510672
? Authoraffiliationids: 60032350;60025153;60025153;60025577;60025577;60032350
? Corresponding: Sala R.D.
9.
? Title: Exploring 0.3V Inverter Based OTA Designs with NOR3-Based Common Mode Feedback
? Venue: 2025 23rd IEEE Interregional Newcas Conference Newcas 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/NewCAS64648.2025.11107086
? Scopus ID: 2-s2.0-105015483240
? Pages: 435-439
? Authors: Sala Riccardo Della; Aiello Orazio; Nguyen Ngo Doanh; Bui Duy Hieu; Tran Xuan Tu; Scotti Giuseppe
? Keywords: Component | Internet of Things | inverter-based | OTA | Ultra Low Power | ultra-low voltage
? Source Id: 21101328533
? Author Ids: 57462337300;57212143527;57215284775;56024941700;16308138900;35491669000
? Authoraffiliationids: 60032350;60025153;60025153-60071364;60071364;60071364;60032350
? Corresponding: Sala R.D.
10.
? Title: A 138.39 FoMS, 2.8 nW, 65dB, Digital-Based OTA for Bio-Signal Processing Applications
? Venue: 2025 23rd IEEE Interregional Newcas Conference Newcas 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/NewCAS64648.2025.11106971
? Scopus ID: 2-s2.0-105015439783
? Pages: 361-365
? Authors: Sala Riccardo Della; Namdari Ali; Aiello Orazio; Caviglia Daniele D.; Tommasino Pasquale
? Keywords: High-Gain | Inverter | OTA | Subthreshold | Ultra-low power
? Source Id: 21101328533
? Author Ids: 57462337300;57217935624;57212143527;7004012654;6701510672
? Authoraffiliationids: 60032350;60025153;60025153;60025153;60032350

? Corresponding: Sala R.D.

11.
? Title: VDD -Scalable and Reference-Less Body-Biased Inverter-Based OTA Exploiting Improved Composite Transistors for ULV/ULP Applications
? Venue: 2025 23rd IEEE Interregional Newcas Conference Newcas 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/NewCAS64648.2025.11107142
? Scopus ID: 2-s2.0-105015379690
? Pages: 346-350
? Authors: Privitera Marco; Radovalho Luis Henrique; Aiello Orazio; Grasso Alfio Dario; Alioto Massimo
? Keywords: inverter-based amplifiers | ultra-low power | ultra-low-voltage
? Source Id: 21101328533
? Author Ids: 57224407950;60090278600;57212143527;12446187600;7004256085
? Authoraffiliationids: 60010146;60009778;60025153;60010146;60017161
? Corresponding: Privitera M.

12.
? Title: Multipolar Stimulator for Deep Brain Stimulation With Suppression of Stimulation-Induced Common-Mode Artifacts
? Venue: IEEE Access
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.1109/Access.2025.3602824
? Scopus ID: 2-s2.0-105014777590
? eISSN: 21693536
? Volume: 13
? Pages: 150458-150472
? Authors: Shokri Reza; Koolivand Yarallah; Shoaei Omid; Caviglia Daniele D.; Aiello Orazio
? Keywords: Current mode stimulation | electrical stimulation | implantable biomedical devices | multipolar stimulation | recording systems | simultaneous stimulation
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
? Source Id: 21100374601
? Author Ids: 57224794408;8645344400;7004130929;7004012654;57212143527
? Authoraffiliationids: 60022927-60025153;60016248;60022927;60025153;60025153
? Corresponding: Shokri R.

13.
? Title: A 180-nm CMOS Integrated Capacitance-to-Time Converter for Capacitive Sensing Applications
? Venue: IEEE Sensors Journal
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.1109/Jsen.2025.3597027

? Scopus ID: 2-s2.0-105013339274
? Issn: 1530437x
? eISSN: 15581748
? Volume: 25
? Issue: 19
? Pages: 36395-36406
? Authors: Darwish Hala; Reig Cˆ ndid; Leger Gildas; Di Patrizio Stanchieri Guido; Aiello Orazio; De Marcellis Andrea
? Keywords: Capacitance-to-time converter | CMOS integrated circuit | differential capacitance sensors
? Quartile:
2025:
? Instrumentation (Q1, rank 27, percentile 85)
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)
? Source Id: 15047
? Author Ids: 58594565100;7003954653;7003334321;57191657351;57212143527;23975554000
? Authoraffiliationids: 60002644;60002644;60023841;60018783;60025153;60018783
? Corresponding: Darwish H.

14.
? Title: Live Demonstration: Sea Wave Energy Harvester for Environmental Monitoring Buoys
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Iscas56072.2025.11044215
? Scopus ID: 2-s2.0-105010582076
? Issn: 02714310
? Authors: Nicora Filippo; Aiello Orazio; Boragno Corrado; Caviglia Daniele D.; Lo Schiavo Alessandro
? Keywords: Energy Harvester | Wave Energy Converter
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
? Source Id: 56190
? Author Ids: 59302586800;57212143527;56214231400;7004012654;59227633100
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60026777
? Corresponding: Nicora F.

15.
? Title: Live Demonstration: Energy Autonomous Wireless Sensor Node for Oxygen Monitoring with LoRa Connectivity
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Iscas56072.2025.11043568
? Scopus ID: 2-s2.0-105010581705
? Issn: 02714310
? Authors: La Rosa Roberto; Aiello Orazio
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

? Source Id: 56190
? Author Ids: 55516276800;57212143527
? Authoraffiliationids: 108144405;60025153
? Corresponding: La Rosa R.

16.
? Title: An Inverter-Based Difference Differential Amplifier with Active Frequency Compensation
? Venue: 2025 IEEE 16th Latin American Symposium on Circuits and Systems Lascas 2025 Proceedings
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Lascas64004.2025.10966275
? Scopus ID: 2-s2.0-105004560858
? Authors: Rodovalho Luis Henrique; Aiello Orazio
? Keywords: CMOS inverter | difference differential amplifier | inverter-based amplifier
? Source Id: 21101293113
? Author Ids: 57190740930;57212143527
? Authoraffiliationids: 60017609;60025153
? Corresponding: Rodovalho L.H.

17.
? Title: A Novel 0.62 nW Inverter Based Digital-OTA
? Venue: 2025 IEEE 16th Latin American Symposium on Circuits and Systems Lascas 2025 Proceedings
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Lascas64004.2025.10966369
? Scopus ID: 2-s2.0-105004558819
? Authors: Sala Riccardo Della; Aiello Orazio; Scotti Giuseppe
? Keywords: Internet of Things | inverter-based | OTA | ultra-low power | ultra-low voltage
? Source Id: 21101293113
? Author Ids: 57462337300;57212143527;35491669000
? Authoraffiliationids: 60032350;60025153;60032350
? Corresponding: Sala R.D.

18.
? Title: A 0.3V, 2.34nW and 56db Gain Bulk-Driven OTA Exploiting Cascode Output Stages and Enhanced Current Mirrors
? Venue: 2025 IEEE 16th Latin American Symposium on Circuits and Systems Lascas 2025 Proceedings
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Lascas64004.2025.10966355
? Scopus ID: 2-s2.0-105004557500
? Authors: Sala Riccardo Della; Aiello Orazio; Scotti Giuseppe
? Keywords: body-driven | Internet of Things | OTA | ultra-low power | ultra-low voltage
? Source Id: 21101293113

? Author Ids: 57462337300;57212143527;35491669000
? Authoraffiliationids: 60032350;60025153;60032350
? Corresponding: Sala R.D.

19.
? Title: Sustainable, Battery-Free Wireless Sensor Node with LoRaWAN Connectivity in ABP and OTAA Activation Modes
? Venue: 2025 IEEE 16th Latin American Symposium on Circuits and Systems Lascas 2025 Proceedings
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Lascas64004.2025.10966344
? Scopus ID: 2-s2.0-105004551157
? Authors: Rosa Roberto La; Firpo Pietro; Aiello Orazio
? Keywords: ABP (Activation By Personalization) | Autonomous Systems | Energy Harvesting | Environmental Monitoring | IoT (Internet of Things) | LoRaWAN | OTAA (Over-The-Air Activation) | Sustainable Energy | Wireless Sensor Node
? Source Id: 21101293113
? Author Ids: 55516276800;58512300500;57212143527
? Authoraffiliationids: 108144405;60025153;60025153
? Corresponding: Rosa R.L.

20.
? Title: A Reconfigurable, Nonlinear, Low-Power, VCO-Based ADC for Neural Recording Applications
? Venue: Sensors
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 1
? DOI: 10.3390/s24196161
? Scopus ID: 2-s2.0-85206334725
? eISSN: 14248220
? Volume: 24
? Issue: 19
? Authors: Shokri Reza; Koolivand Yarallah; Shoaei Omid; Caviglia Daniele D.; Aiello Orazio
? Keywords: neural recording systems | nonlinear quantization | parabolic function ADC | VCO-based ADC
? Quartile:
2025:
? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)
2024:
? Instrumentation (Q1, rank 21, percentile 88)
? Electrical and Electronic Engineering (Q1, rank 145, percentile 85)
? Analytical Chemistry (Q1, rank 30, percentile 81)
? Atomic and Molecular Physics, and Optics (Q1, rank 44, percentile 81)
? Information Systems (Q1, rank 91, percentile 80)
? Biochemistry (Q1, rank 86, percentile 80)

? Source Id: 130124
? Author Ids: 57224794408;8645344400;7004130929;7004012654;57212143527
? Authoraffiliationids: 60022927-60025153;60016248;60022927;60025153;60025153
? Corresponding: Shokri R.

21.
? Title: A 0.5 V, 32 nW Compact Inverter-Based All-Filtering Response Modes Gm-C Filter for Bio-Signal Processing
? Venue: Journal of Low Power Electronics and Applications
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 4
? DOI: 10.3390/jlpea14030040
? Scopus ID: 2-s2.0-85205081677
? eISSN: 20799268
? Volume: 14
? Issue: 3
? Authors: Namdari Ali; Aiello Orazio; Caviglia Daniele D.
? Keywords: CMOS | Gm-C | low-power | low-voltage | universal filter
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 355, percentile 64)
2024:
? Electrical and Electronic Engineering (Q2, rank 339, percentile 65)
? Source Id: 21100332242
? Author Ids: 57217935624;57212143527;7004012654
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Namdari A.

22.
? Title: Analysis of a Sea Wave Energy Harvester for Environmental Monitoring Buoys
? Venue: Proceedings of the IEEE International Conference on Electronics Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Icecs61496.2024.10848561
? Scopus ID: 2-s2.0-85217616684
? Issn: 29945755
? eISSN: 29950589
? Authors: Aiello Orazio; Boragno Corrado; Caviglia Daniele D.; Schiavo Alessandro Lo; Nicora Filippo
? Keywords: Energy Harvester | Hybrid Harvesters | Internet of Things | Wave Energy Converter | Wireless Sensor Networks
? Quartile:
2025:
? Electrical and Electronic Engineering (Q4, rank 913, percentile 8)
2024:
? Electrical and Electronic Engineering (Q4, rank 941, percentile 2)
? Source Id: 91096
? Author Ids: 57212143527;56214231400;7004012654;59227633100;59302586800
? Authoraffiliationids: 60025153;60025153;60025153;60026777;60025153
? Corresponding: Aiello O.

23.

? Title: Highly Linear, Digital OTA With Modified Input Stage
? Venue: 2024 19th Conference on Ph D Research in Microelectronics and Electronics Prime 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Prime61930.2024.10559685
? Scopus ID: 2-s2.0-85199267708
? Authors: Shokri Reza; Caviglia Daniele D.; Aiello Orazio
? Keywords: fully-digital | Operational Transconductance Amplifier (OTA) | ultra-low power | ultra-low voltage
? Source Id: 21101237948
? Author Ids: 57224794408;7004012654;57212143527
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Shokri R.

24.
? Title: 0.5V 32nW Inverter-Based Gm-C Filter for Bio-Signal Processing
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Iscas58744.2024.10558655
? Scopus ID: 2-s2.0-85198561757
? Issn: 02714310
? Authors: Namdari Ali; Aiello Orazio; Caviglia Daniele D.
? Keywords: CMOS | Gm-C | Low-power | Low-Voltage | Universal filter
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2024:
? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)
? Source Id: 56190
? Author Ids: 57217935624;57212143527;7004012654
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Namdari A.

25.
? Title: Fully Synthesizable Dynamic Voltage Comparator across technology nodes and scaled supply voltages
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Iscas58744.2024.10557872
? Scopus ID: 2-s2.0-85198532529
? Issn: 02714310
? Authors: Bui Duy Hieu; Tran Duc Manh; Caviglia Daniele D.; Aiello Orazio
? Keywords: deep subthreshold | Dynamic voltage comparator | fully synthesizable | standard-cell design | technology-nodes and voltage scalability | ultra-low voltage
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2024:
? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)
? Source Id: 56190
? Author Ids: 56024941700;57546819900;7004012654;57212143527
? Authoraffiliationids: 60071364;60071364;60025153;60025153
? Corresponding: Bui D.H.
26.
? Title: Inverter-Based Amplifier with Active Frequency Compensation and Adaptive Voltage Scaling
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Iscas58744.2024.10558561
? Scopus ID: 2-s2.0-85198524520
? Issn: 02714310
? Authors: Rodovalho Luis Henrique; Aiello Orazio
? Keywords: adaptive body-biasing | adaptive voltage scaling | CMOS inverter | inverter-based amplifier | PVT robust amplifier
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2024:
? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)
? Source Id: 56190
? Author Ids: 57190740930;57212143527
? Authoraffiliationids: 60017609;60025153
? Corresponding: Rodovalho L.H.
27.
? Title: A 0.4 V 180 nm CMOS Sub-?W Ultra-Compact and Low-Effort Design PWM-Based ADC
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Iscas58744.2024.10558592
? Scopus ID: 2-s2.0-85198524162
? Issn: 02714310
? Authors: Di Patrizio Stanchieri Guido; Aiello Orazio; De Marcellis Andrea
? Keywords: Highly-Synthesizable | Invert-Based ADC | IP-Reuse | Pulse-Width-Modulator | Sub-0.6 V Supply Voltage
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2024:
? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)
? Source Id: 56190
? Author Ids: 57191657351;57212143527;23975554000
? Authoraffiliationids: 60018783;60025153;60018783
? Corresponding: Di Patrizio Stanchieri G.
28.
? Title: SRAM-based Physically Unclonable Function using Lightweight Hamming-Code Fuzzy Extractor for Energy Harvesting Beat Sensors

? Venue: International Conference on Advanced Technologies for Communications
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Atc63255.2024.10908150
? Scopus ID: 2-s2.0-105000800484
? Issn: 21621039
? eISSN: 21621020
? Pages: 499-504
? Authors: Pham Hoang Long; Bui Duy Hieu; Tran Xuan Tu; Aiello Orazio
? Keywords: Beat Sensors | Internet of Things | Physically Unclonable Function
? Quartile:
2025:
? Computer Networks and Communications (Q4, rank 427, percentile 22)
? Hardware and Architecture (Q4, rank 194, percentile 17)
? Software (Q4, rank 443, percentile 11)
2024:
? Computer Networks and Communications (Q4, rank 395, percentile 22)
? Hardware and Architecture (Q4, rank 189, percentile 15)
? Software (Q4, rank 422, percentile 13)
? Source Id: 20600195633
? Author Ids: 57220746985;56024941700;16308138900;57212143527
? Authoraffiliationids: 60071364;60071364;60071364;60025153
? Corresponding: Pham H.L.

29.
? Title: Capacitance-to-digital converter in dual-mode logic: power consumption vs conversion time trade-off
? Venue: Analog Integrated Circuits and Signal Processing
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 2
? DOI: 10.1007/s10470-023-02173-9
? Scopus ID: 2-s2.0-85165092514
? Issn: 09251030
? eISSN: 15731979
? Volume: 117
? Issue: 1-3
? Pages: 35-44
? Authors: Aiello Orazio; Crovetti Paolo
? Keywords: Capacitive-to-digital converter (CDC) | Dual-mode (DM) logic | nW power | Power consumption versus time conversion trade-off | Ultra-low voltage
? Quartile:
2025:
? Signal Processing (Q2, rank 82, percentile 58)
? Hardware and Architecture (Q2, rank 116, percentile 50)
? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)
2023:
? Signal Processing (Q3, rank 68, percentile 48)
? Surfaces, Coatings and Films (Q3, rank 71, percentile 46)
? Hardware and Architecture (Q3, rank 102, percentile 42)
? Source Id: 25569
? Author Ids: 57212143527;6506207582

? Authoraffiliationids: 60025153;60012162
? Corresponding: Aiello O.

30.
? Title: Monitoring the Air Quality in an HVAC System via an Energy Harvesting Device
? Venue: Sensors
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 3
? DOI: 10.3390/s23146381
? Scopus ID: 2-s2.0-85166028387
? Issn: 14248220
? Volume: 23
? Issue: 14
? Authors: Boragno Corrado; Aiello Orazio; Caviglia Daniele D.
? Keywords: air flux | autonomous wireless sensor networks | battery-less air monitoring | powering HVAC systems | wind energy harvesting
? Quartile:
2025:
? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)
2023:
? Instrumentation (Q1, rank 24, percentile 83)
? Electrical and Electronic Engineering (Q1, rank 163, percentile 79)
? Atomic and Molecular Physics, and Optics (Q1, rank 48, percentile 78)
? Analytical Chemistry (Q1, rank 36, percentile 77)
? Information Systems (Q1, rank 91, percentile 77)
? Biochemistry (Q2, rank 133, percentile 69)
? Source Id: 130124
? Author Ids: 56214231400;57212143527;7004012654
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Boragno C.

31.
? Title: Ultra-Low-Power ICs for the Internet of Things
? Venue: Journal of Low Power Electronics and Applications
? Year: 2023
? Type: Journal
? Subtype: Editorial
? Citations: 4
? DOI: 10.3390/jlpea13020038
? Scopus ID: 2-s2.0-85163650949
? eISSN: 20799268
? Volume: 13
? Issue: 2
? Authors: Aiello Orazio
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 355, percentile 64)
2023:
? Electrical and Electronic Engineering (Q2, rank 366, percentile 54)

? Source Id: 21100332242
? Author Ids: 57212143527
? Authoraffiliationids: 60025153
? Corresponding: Aiello O.

32.
? Title: Rail-to-rail input/output bulk driven class AB operational amplifier with improved composite transistors
? Venue: Analog Integrated Circuits and Signal Processing
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 3
? DOI: 10.1007/s10470-023-02160-0
? Scopus ID: 2-s2.0-85160644835
? Issn: 09251030
? eISSN: 15731979
? Volume: 115
? Issue: 3
? Pages: 279-291
? Authors: Rodovalho Luis Henrique; Rodrigues Cesar Ramos; Aiello Orazio
? Keywords: Composite transistors | Current mirror | Forward-body-biasing | Open source PDK | Operational amplifier
? Quartile:
2025:
? Signal Processing (Q2, rank 82, percentile 58)
? Hardware and Architecture (Q2, rank 116, percentile 50)
? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)
2023:
? Signal Processing (Q3, rank 68, percentile 48)
? Surfaces, Coatings and Films (Q3, rank 71, percentile 46)
? Hardware and Architecture (Q3, rank 102, percentile 42)
? Source Id: 25569
? Author Ids: 57190740930;22036272700;57212143527
? Authoraffiliationids: 60017609;60017609;60025153
? Corresponding: Rodovalho L.H.

33.
? Title: Capacitance-to-Digital Converter for Harvested Systems Down to 0.3 V With No Trimming, Reference, and Voltage Regulation
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Tcsi.2023.3237694
? Scopus ID: 2-s2.0-85147291590
? Issn: 15498328
? eISSN: 15580806
? Volume: 70
? Issue: 4
? Pages: 1439-1449
? Authors: Aiello Orazio; Crovetti Paolo Stefano; Alioto Massimo
? Keywords: Capacitance-to-digital converter (CDC) | energy harvesting | IoT | ultra-low power | ultra-low voltage
? Quartile:

2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2023:
? Subject (Q1, rank 99, percentile 87)
? Subject (Q1, rank 24, percentile 86)
? Source Id: 11000153733
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60025153;60012162;60017161
? Corresponding: Aiello O.

34.
? Title: A Nonlinear, Low-Power, VCO-Based ADC for Neural Recording Applications
? Venue: 2023 5th Iranian International Conference on Microelectronics Iicm 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Iicm60532.2023.10443199
? Scopus ID: 2-s2.0-85187215044
? Pages: 199-203
? Authors: Shokri Reza; Koolivand Yarallah; Shoaei Omid; Aiello Orazio; Caviglia Daniele
? Keywords: Neural recording systems | nonlinear quantization | parabolic function ADC | VCO-based ADC
? Source Id: 21101206204
? Author Ids: 57224794408;8645344400;7004130929;57212143527;7004012654
? Authoraffiliationids: 60022927;60016248;60022927;60025153;60025153
? Corresponding: Shokri R.

35.
? Title: Multipolar Stimulator for DBS Application with Concurrent Imbalance Compensation
? Venue: Icecs 2023 2023 30th IEEE International Conference on Electronics Circuits and Systems Technosapiens for Saving Humanity
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Icecs58634.2023.10382867
? Scopus ID: 2-s2.0-85183582430
? Authors: Shokri Reza; Koolivand Yarallah; Shoaei Omid; Aiello Orazio; Caviglia Daniele D.
? Keywords: current mode stimulation | electrical stimulation | Implantable biomedical devices | multipolar stimulation
? Source Id: 21101198596
? Author Ids: 57224794408;8645344400;7004130929;57212143527;7004012654
? Authoraffiliationids: 60025153-60022927;60016248;60022927;60025153;60025153
? Corresponding: Shokri R.

36.
? Title: A 30 kHz - 3 GHz Clock Duty-Cycle Corrector Circuit for CMOS Integrated Digital Electronic Systems
? Venue: Mixed Design of Integrated Circuits and System Mixdes 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4

? Doi: 10.23919/Mixdes58562.2023.10203264
? Scopus ID: 2-s2.0-85169445124
? Pages: 73-78
? Authors: Di Patrizio Stanchieri Guido; De Marcellis Andrea; Faccio Marco; Palange Elia; Aiello Orazio
? Keywords: Clock Generators | CMOS Integrated Digital Systems | DLL | Duty-Cycle Corrector Circuits | PLL | RAM Memory
? Source Id: 21101175279
? Author Ids: 57191657351;23975554000;7003775870;6701392461;57212143527
? Authoraffiliationids: 60018783;60018783;60018783;60018783;60025153
? Corresponding: Di Patrizio Stanchieri G.

37.
? Title: Improving Energy Harvesting Performance of the PVDF Films by adding Nano ZnO
? Venue: 2023 5th International Conference on Advances in Computational Tools for Engineering Applications Actea 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Actea58025.2023.10194067
? Scopus ID: 2-s2.0-85168910916
? Pages: 201-204
? Authors: Hamdan Rawad; Alyosef Ayham; Aiello Orazio; Caviglia Daniele
? Keywords: energy conversion efficiency | energy harvesting | nano ZnO | pyroelectric coefficient | pyroelectricity
? Source Id: 21101173124
? Author Ids: 57195680082;57222742064;57212143527;7004012654
? Authoraffiliationids: 60072762;60025153;60025153;60025153
? Corresponding: Hamdan R.

38.
? Title: 38.4-pW, 0.14-mm2Body-Driven Temperature-to-Digital Converter and Voltage Reference with 0.6-1.6-V Unregulated Supply for Battery-Less Systems
? Venue: Digest of Technical Papers Symposium on VLSI Technology
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? DOI: 10.23919/VLSITechnologyandCir57934.2023.10185359
? Scopus ID: 2-s2.0-85167588527
? Issn: 07431562
? Volume: 2023-June
? Authors: Fassio Luigi; Aiello Orazio; Alioto Massimo
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 342, percentile 65)
2023:
? Electrical and Electronic Engineering (Q2, rank 386, percentile 51)
? Source Id: 14937
? Author Ids: 57218767161;57212143527;7004256085
? Authoraffiliationids: 60017161;60017161;60017161
? Corresponding: Fassio L.

39.
? Title: Mitigating Cyber Attacks in LoRaWAN via Lightweight Secure Key Management Scheme

? Venue: IEEE Access
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 8
? Doi: 10.1109/Access.2023.3291420
? Scopus ID: 2-s2.0-85164415741
? eISSN: 21693536
? Volume: 11
? Pages: 68301-68315
? Authors: Qadir Junaid; Butun Ismail; Gastaldo Paolo; Aiello Orazio; Caviglia Daniele D.
? Keywords: ECDH | key derivation | key exchanging | LoRa | LoRaWAN | security | security enhancement
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2023:
? Engineering (all) (Q1, rank 23, percentile 92)
? Computer Science (all) (Q1, rank 29, percentile 87)
? Materials Science (all) (Q1, rank 77, percentile 83)
? Source Id: 21100374601
? Author Ids: 57213299572;35316899700;35612596100;57212143527;7004012654
? Authoraffiliationids: 60002014-60025153;60002014-60197889;60025153;60025153;60025153
? Corresponding: Qadir J.

40.
? Title: Conversion Time-Power Tradeoff in Capacitance-to-Digital Converters with Dual-Mode Logic
? Venue: 35th Sbc Sbmicro IEEE ACM Symposium on Integrated Circuits and Systems Design Sbcci 2022 Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Sbcci55532.2022.9893227
? Scopus ID: 2-s2.0-85141725111
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Capacitive-to-Digital converter (CDC) | Dual-Mode (DM) Logic | nW Power | Power consumption versus Time conversion trade-off | Ultra-Low Voltage
? Source Id: 21101120342
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161-60025153;60012162;60017161
? Corresponding: Aiello O.

41.
? Title: Capacitance-Based Voltage Regulation- and Reference-Free Temperature-to-Digital Converter down to 0.3 v and 2.5 nW for Direct Harvesting
? Venue: Esscirc 2022 IEEE 48th European Solid State Circuits Conference Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Esscirc55480.2022.9911378

? Scopus ID: 2-s2.0-85141541900
? Pages: 381-384
? Authors: Aiello Orazio; Alioto Massimo
? Keywords: harvesting | Temperature sensing | ultra-low-power
? Source Id: 21101119563
? Author Ids: 57212143527;7004256085
? Authoraffiliationids: 60017161-60025153;60017161
? Corresponding: Aiello O.

42.
? Title: DDPMnet: All-Digital Pulse Density-Based DNN Architecture with 228 Gate Equivalents/MAC Unit, 28-TOPS/W and 1.5-TOPS/mm2 in 40nm
? Venue: Proceedings of the Custom Integrated Circuits Conference
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Cicc53496.2022.9772786
? Scopus ID: 2-s2.0-85130720485
? Issn: 08865930
? Volume: 2022-April
? Authors: Gupta Animesh; Konandur Viveka; Salam Thoithoi; Jain Saurabh; Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 399, percentile 60)
2022:
? Electrical and Electronic Engineering (Q2, rank 368, percentile 50)
? Source Id: 83444
? Author Ids: 57703834900;57711452700;57711198900;57193628262;57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161;60017161;60017161;60017161;60017161;60012162;60017161
? Corresponding: Gupta A.

43.
? Title: A 1.9 nw, sub-1 v, 542 pa/v linear bulk-driven ota with 154 db cmrr for bio-sensing applications
? Venue: Journal of Low Power Electronics and Applications
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 16
? DOI: 10.3390/jlpea11040040
? Scopus ID: 2-s2.0-85118220477
? eISSN: 20799268
? Volume: 11
? Issue: 4
? Authors: Silva Rafael Sanchotene; Rodovalho Luis Henrique; Aiello Orazio; Rodrigues Cesar Ramos
? Keywords: Bulk-driven OTA | Self-cascode mirror | Transconductor
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 355, percentile 64)
2021:
? Electrical and Electronic Engineering (Q2, rank 300, percentile 57)
? Source Id: 21100332242

? Author Ids: 56729782500;57190740930;57212143527;22036272700
? Authoraffiliationids: 60017609;60017609;60017161;60017609
? Corresponding: Silva R.S.

44.
? Title: Design of digital OTAs with operation down to 0.3 V and NW power for direct harvesting
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 60
? Doi: 10.1109/Tcsi.2021.3089339
? Scopus ID: 2-s2.0-85109265617
? Issn: 15498328
? eISSN: 15580806
? Volume: 68
? Issue: 9
? Pages: 3693-3706
? Authors: Toledo Pedro; Crovetti Paolo; Aiello Orazio; Alioto Massimo
? Keywords: Digital OTA | Internet of Things (IoT) | Low power | Low voltage | Operational transconductance amplifier (OTA)
? Quartile:
2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2021:
? Subject (Q1, rank 106, percentile 85)
? Subject (Q1, rank 32, percentile 81)
? Source Id: 11000153733
? Author Ids: 56435887500;6506207582;57212143527;7004256085
? Authoraffiliationids: 60012162;60012162;60017161;60017161
? Corresponding: Toledo P.

45.
? Title: A 300mV-Supply, Sub-nW-Power Digital-Based Operational Transconductance Amplifier
? Venue: IEEE Transactions on Circuits and Systems II Express Briefs
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 37
? Doi: 10.1109/Tcsii.2021.3084243
? Scopus ID: 2-s2.0-85107216708
? Issn: 15497747
? eISSN: 15583791
? Volume: 68
? Issue: 9
? Pages: 3073-3077
? Authors: Toledo Pedro; Crovetti Paolo; Klimach Hamilton; Bampi Sergio; Aiello Orazio; Alioto Massimo
? Keywords: digital-based analog processing | Internet of things (IoT) | operational transconductance amplifier (OTA) | Ultra-low voltage (ULV)
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)
2021:

? Electrical and Electronic Engineering (Q1, rank 149, percentile 79)
? Source Id: 9500153930
? Author Ids: 56435887500;6506207582;8544715900;6602489732;57212143527;7004256085
? Authoraffiliationids: 60012162;60012162;60006726;60006726;60017161;60017161
? Corresponding: Toledo P.

46.
? Title: Rail-to-rail dynamic voltage comparator scalable down to pW-Range power and 0.15-V supply
? Venue: IEEE Transactions on Circuits and Systems II Express Briefs
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 48
? Doi: 10.1109/Tcsii.2021.3059164
? Scopus ID: 2-s2.0-85101432027
? Issn: 15497747
? eISSN: 15583791
? Volume: 68
? Issue: 7
? Pages: 2675-2679
? Authors: Aiello Orazio; Crovetti Paolo; Toledo Pedro; Alioto Massimo
? Keywords: Dynamic comparator | fully-synthesizable | Internet of Things | sensor nodes | ultra-low power | ultra-low voltage
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)
2021:
? Electrical and Electronic Engineering (Q1, rank 149, percentile 79)
? Source Id: 9500153930
? Author Ids: 57212143527;6506207582;56435887500;7004256085
? Authoraffiliationids: 60017161;60012162;60012162;60017161
? Corresponding: Aiello O.

47.
? Title: Temperature Characterization of a Fully-synthesizable Rail-to-Rail Dynamic Voltage Comparator operating down to 0.15-V: (Invited paper)
? Venue: 2021 19th IEEE International New Circuits and Systems Conference Newcas 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Newcas50681.2021.9462749
? Scopus ID: 2-s2.0-85114616365
? Authors: Aiello Orazio; Toledo Pedro
? Keywords: fully-synthesizable | Internet of Things | low area Dynamic comparator | low design effort | sensor nodes | standard cell-based | technology portable | Temperature dependence | ultra-low power | ultra-low voltage
? Source Id: 21101058738
? Author Ids: 57212143527;56435887500
? Authoraffiliationids: 60017161;60012162
? Corresponding: Aiello O.

48.
? Title: Self-biased and supply-voltage scalable inverter-based operational transconductance amplifier with improved composite transistors
? Venue: Electronics Switzerland

? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 29
? DOI: 10.3390/electronics10080935
? Scopus ID: 2-s2.0-85104042786
? eISSN: 20799292
? Volume: 10
? Issue: 8
? Authors: Rodovalho Luis Henrique; Rodrigues Cesar Ramos; Aiello Orazio
? Keywords: Composite transistors | Improved forward-body-bias | Inverter-based OTA | Operational Transconductance Amplifier (OTA) | Push-pull based OTA | Supply-voltage scalable | Ultra-Low-Power (ULP) | Ultra-Low-Voltage (ULV)
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2021:
? Electrical and Electronic Engineering (Q2, rank 280, percentile 60)
? Computer Networks and Communications (Q2, rank 146, percentile 59)
? Control and Systems Engineering (Q2, rank 110, percentile 59)
? Signal Processing (Q2, rank 51, percentile 56)
? Hardware and Architecture (Q2, rank 75, percentile 55)
? Source Id: 21100829272
? Author Ids: 57190740930;22036272700;57212143527
? Authoraffiliationids: 60017609;60017609;60017161
? Corresponding: Rodovalho L.H.

49.
? Title: Capacitance-to-Digital Converter for Operation under Uncertain Harvested Voltage down to 0.3V with No Trimming, Reference and Voltage Regulation
? Venue: Digest of Technical Papers IEEE International Solid State Circuits Conference
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 22
? Doi: 10.1109/Isscc42613.2021.9365846
? Scopus ID: 2-s2.0-85102333498
? Issn: 01936530
? Volume: 64
? Pages: 74-76
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 78, percentile 92)
? Electronic, Optical and Magnetic Materials (Q1, rank 36, percentile 88)
2021:
? Electrical and Electronic Engineering (Q1, rank 41, percentile 94)
? Electronic, Optical and Magnetic Materials (Q1, rank 24, percentile 90)
? Source Id: 26020
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161;60012162;60017161

? Corresponding: Aiello O.

50.

? Title: Fully-differential inverter-based OTA with improved composite transistors
? Venue: 2021 IEEE Asia Pacific Conference on Circuits and Systems Apccas 2021 and 2021 IEEE Conference on Postgraduate Research in Microelectronics and Electronics Primeasia 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Apccas51387.2021.9687735
? Scopus ID: 2-s2.0-85126717965
? Pages: 9-12
? Authors: Rodovalho Luis Henrique; Aiello Orazio; Rodrigues Cesar Ramos
? Keywords: CMOS inverter-based amplifiers | forward-body-biasing | improved composite transistors | rectangular transistor arrays | ultra-low-power | ultra-low-voltage
? Source Id: 21101081706
? Author Ids: 57190740930;57212143527;22036272700
? Authoraffiliationids: 60017609;60017161;60017609
? Corresponding: Rodovalho L.H.

51.

? Title: An inverter-based OTA using improved composite transistors and bulk-driven common-mode rejection
? Venue: 2021 IEEE Asia Pacific Conference on Circuits and Systems Apccas 2021 and 2021 IEEE Conference on Postgraduate Research in Microelectronics and Electronics Primeasia 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/Apccas51387.2021.9687805
? Scopus ID: 2-s2.0-85126659039
? Pages: 13-16
? Authors: Rodovalho Luis Henrique; Rodrigues Cesar Ramos; Aiello Orazio
? Keywords: CMOS inverter-based amplifiers | forward-body-biasing | improved composite transistors | rectangular transistor arrays | ultra-low-power | ultra-low-voltage
? Source Id: 21101081706
? Author Ids: 57190740930;22036272700;57212143527
? Authoraffiliationids: 60017609;60017609;60017161
? Corresponding: Rodovalho L.H.

52.

? Title: A Two-Stage Single-Ended OTA with Improved Composite Transistors
? Venue: 2021 IEEE Nordic Circuits and Systems Conference Norcas 2021 Proceedings
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? DOI: 10.1109/NorCAS53631.2021.9599859
? Scopus ID: 2-s2.0-85123503651
? Authors: Rodovalho Luis Henrique; Rodrigues Cesar Ramos; Aiello Orazio
? Keywords: Forward-body-biasing | Operational transconductance amplifier
? Source Id: 21101073935
? Author Ids: 57190740930;22036272700;57212143527
? Authoraffiliationids: 60017609;60017609;60017161

? Corresponding: Rodovalho L.H.

53.

? Title: CMOS inverter linearization technique with active source degeneration
? Venue: 2021 IEEE Nordic Circuits and Systems Conference Norcas 2021 Proceedings
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? DOI: 10.1109/NorCAS53631.2021.9599643
? Scopus ID: 2-s2.0-85123487350
? Authors: Rodovalho Luis Henrique; Rodrigues Cesar Ramos; Aiello Orazio
? Keywords: Forward body-biasing | Inverter-based OTAs | Ultra-low voltage
? Source Id: 21101073935
? Author Ids: 57190740930;22036272700;57212143527
? Authoraffiliationids: 60017609;60017609;60017161
? Corresponding: Rodovalho L.H.

54.

? Title: Design of an ultra-low voltage bias current generator highly immune to electromagnetic interference
? Venue: Journal of Low Power Electronics and Applications
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 2
? DOI: 10.3390/jlpea11010006
? Scopus ID: 2-s2.0-85100536737
? eISSN: 20799268
? Volume: 11
? Issue: 1
? Pages: 1-11
? Authors: Aiello Orazio
? Keywords: Current correlator | Current generators | Current mirrors | Current-splitter | Electromagnetic Interference (EMI) | Ultra-Low-Voltage (ULV) ICs
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 355, percentile 64)
2021:
? Electrical and Electronic Engineering (Q2, rank 300, percentile 57)
? Source Id: 21100332242
? Author Ids: 57212143527
? Authoraffiliationids: 60017161
? Corresponding: Aiello O.

55.

? Title: Ultra-low-voltage inverter-based operational transconductance amplifiers with voltage gain enhancement by improved composite transistors
? Venue: Electronics Switzerland
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 46
? DOI: 10.3390/electronics9091410
? Scopus ID: 2-s2.0-85093881192
? eISSN: 20799292
? Volume: 9

? Issue: 9
? Pages: 1-16
? Authors: Rodovalho Luis Henrique; Aiello Orazio; Rodrigues Cesar Ramos
? Keywords: Composite transistors | Improved forward-body-bias | Inverter-based OTA | Operational transconductance amplifier (OTA) | Push-pull based OTA | Ultra-low-power (ULP) | Ultra-low-voltage (ULV)
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2020:
? Control and Systems Engineering (Q2, rank 123, percentile 52)
? Computer Networks and Communications (Q2, rank 161, percentile 51)
? Electrical and Electronic Engineering (Q2, rank 334, percentile 51)
? Signal Processing (Q3, rank 59, percentile 45)
? Hardware and Architecture (Q3, rank 94, percentile 40)
? Source Id: 21100829272
? Author Ids: 57190740930;57212143527;22036272700
? Authoraffiliationids: 60017609;60017161;60017609
? Corresponding: Rodovalho L.H.

56.
? Title: On the dc offset current generated during biphasic stimulation: Experimental study
? Venue: Electronics Switzerland
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.3390/electronics9081198
? Scopus ID: 2-s2.0-85090688028
? eISSN: 20799292
? Volume: 9
? Issue: 8
? Pages: 1-14
? Authors: Aiello Orazio
? Keywords: Biphasic signal | DC offset current | Electrode stimulation | Platinum electrode matrix
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2020:
? Control and Systems Engineering (Q2, rank 123, percentile 52)
? Computer Networks and Communications (Q2, rank 161, percentile 51)
? Electrical and Electronic Engineering (Q2, rank 334, percentile 51)
? Signal Processing (Q3, rank 59, percentile 45)
? Hardware and Architecture (Q3, rank 94, percentile 40)
? Source Id: 21100829272

? Author Ids: 57212143527
? Authoraffiliationids: 60017161
? Corresponding: Aiello O.

57.
? Title: Electromagnetic susceptibility of battery management systems? ICs for electric vehicles: Experimental study
? Venue: Electronics Switzerland
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 36
? DOI: 10.3390/electronics9030510
? Scopus ID: 2-s2.0-85083219172
? eISSN: 20799292
? Volume: 9
? Issue: 3
? Authors: Aiello Orazio
? Keywords: Anechoic chamber | Battery management system (BMS) | Direct power injection (DPI) | Electric vehicles (EVs) | Hybrid electric vehicles (HEVs) | IC-level EMC | Li-ion battery pack | Susceptibility to electromagnetic interference (EMI)
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2020:
? Control and Systems Engineering (Q2, rank 123, percentile 52)
? Computer Networks and Communications (Q2, rank 161, percentile 51)
? Electrical and Electronic Engineering (Q2, rank 334, percentile 51)
? Signal Processing (Q3, rank 59, percentile 45)
? Hardware and Architecture (Q3, rank 94, percentile 40)
? Source Id: 21100829272
? Author Ids: 57212143527
? Authoraffiliationids: 60012162
? Corresponding: Aiello O.

58.
? Title: Fully Digital Rail-to-Rail OTA with Sub-1000-?m´† Area, 250-mV Minimum Supply, and nW Power at 150-pF Load in 180 nm
? Venue: IEEE Solid State Circuits Letters
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 53
? Doi: 10.1109/Lssc.2020.3027666
? Scopus ID: 2-s2.0-85091926335
? eISSN: 25739603
? Volume: 3
? Pages: 474-477
? Authors: Toledo Pedro; Crovetti Paolo; Aiello Orazio; Alioto Massimo
? Keywords: Energy harvesting | fully digital | operational transconductance amplifier (OTA) | ultralow power | ultralow voltage
? Quartile:

2025:
? Electrical and Electronic Engineering (Q2, rank 405, percentile 59)
2020:
? Electrical and Electronic Engineering (Q3, rank 446, percentile 35)
? Source Id: 21100976126
? Author Ids: 56435887500;6506207582;57212143527;7004256085
? Authoraffiliationids: 60012162;60012162;60017161;60017161
? Corresponding: Toledo P.

59.
? Title: Fully synthesizable low-area analogue-to-digital converters with minimal design effort based on the dyadic digital pulse modulation
? Venue: IEEE Access
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 49
? Doi: 10.1109/Access.2020.2986949
? Scopus ID: 2-s2.0-85084190088
? eISSN: 21693536
? Volume: 8
? Pages: 70890-70899
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: analog sensing Analog-to-digital converter (ADC) | Analog-to-digital converter (ADC) | current sensing | fully-digital | fully-synthesizable | low area | low design effort | standard cell design
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2020:
? Engineering (all) (Q1, rank 39, percentile 87)
? Computer Science (all) (Q1, rank 43, percentile 81)
? Materials Science (all) (Q2, rank 135, percentile 70)
? Source Id: 21100374601
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161;60012162;60017161
? Corresponding: Aiello O.

60.
? Title: Minimum-effort design of ultra-low power interfaces for the internet of things
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Icecs46596.2019.8965082
? Scopus ID: 2-s2.0-85079158631
? Pages: 105-106
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Fully-synthesizable | Low area | Low design effort | Standard cell-based | Technology portable
? Source Id: 21100944554
? Author Ids: 57212143527;6506207582;7004256085

? Authoraffiliationids: 60012162-60017161;60012162;60017161
? Corresponding: Aiello O.

61.
? Title: Fully-synthesizable current-input ADCs for ultra-low area and minimal design effort
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 9
? Doi: 10.1109/Icecs46596.2019.8964789
? Scopus ID: 2-s2.0-85079113462
? Pages: 715-718
? Authors: Aiello Orazio; Crovetti Paolo; Sharma Ayushparth; Alioto Massimo
? Keywords: Analog-to-Digital Converter | Current sensing | Fully-synthesizable | Low area | Low design effort | Standard cell-based
? Source Id: 21100944554
? Author Ids: 57212143527;6506207582;57189657712;7004256085
? Authoraffiliationids: 60012162-60017161;60012162;60017161;60017161
? Corresponding: Aiello O.

62.
? Title: Design of Relaxation Digital-to-Analog Converters for Internet of Things Applications in 40nm CMOS
? Venue: Proceedings Apccas 2019 2019 IEEE Asia Pacific Conference on Circuits and Systems Innovative CAS Towards Sustainable Energy and Technology Disruption
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 19
? Doi: 10.1109/Apccas47518.2019.8953168
? Scopus ID: 2-s2.0-85078703927
? Pages: 13-16
? Authors: Rubino Roberto; Crovetti Paolo S.; Aiello Orazio
? Keywords: Digital to Analog Converter (DAC) | Fully Synthesizable DAC | Internet of Things | Relaxation Digital to Analog Converter (ReDAC) | Ultra Low Power
? Source Id: 21100953610
? Author Ids: 26425174900;6506207582;57212143527
? Authoraffiliationids: 60012162;60012162;60012162-60017161
? Corresponding: Rubino R.

63.
? Title: Hall-effect current sensors susceptibility to EMI: Experimental study
? Venue: Electronics Switzerland
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 26
? DOI: 10.3390/electronics8111310
? Scopus ID: 2-s2.0-85074681392
? eISSN: 20799292
? Volume: 8
? Issue: 11
? Authors: Aiello Orazio
? Keywords: Bulk current injection (BCI) test | Commercial current sensor | Direct

power injection (DPI) test | Electromagnetic compatibility (EMC) | Electromagnetic interference (EMI) | Hall-effect current sensors | Transverse-electromagnetic (TEM) test
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2019:
? Electrical and Electronic Engineering (Q3, rank 376, percentile 43)
? Computer Networks and Communications (Q3, rank 173, percentile 43)
? Control and Systems Engineering (Q3, rank 142, percentile 41)
? Signal Processing (Q3, rank 64, percentile 38)
? Hardware and Architecture (Q3, rank 109, percentile 30)
? Source Id: 21100829272
? Author Ids: 57212143527
? Authoraffiliationids: 60012162
? Corresponding: Aiello O.

64.
? Title: A 300mV-Supply Standard-Cell-Based OTA with Digital PWM Offset Calibration
? Venue: 2019 IEEE Nordic Circuits and Systems Conference Norcas 2019 Norchip and International Symposium of System on Chip Soc 2019 Proceedings
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 25
? Doi: 10.1109/Norchip.2019.8906958
? Scopus ID: 2-s2.0-85076056751
? Authors: Toledo Pedro; Aiello Orazio; Crovetti Paolo S.
? Keywords: Digital Offset Calibration | Digital-Based OTA Circuit | Internet of Things (IoT) | Process variability | Ultra-Low Voltage (ULV)
? Source Id: 21100937454
? Author Ids: 56435887500;57212143527;6506207582
? Authoraffiliationids: 60012162-60006726;60012162-60017161;60012162
? Corresponding: Toledo P.

65.
? Title: Ultra-low voltage current biasing highly immune to EMI
? Venue: 2019 4th IEEE International Circuits and Systems Symposium Icsys 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/ICSyS47076.2019.8982461
? Scopus ID: 2-s2.0-85084282721
? Authors: Aiello Orazio
? Keywords: Current Correlator | Current Splitter | Electromagnetic Interference (EMI) | Subthreshold ICs | Ultra Low Voltage (ULV) current bias
? Source Id: 21100985385
? Author Ids: 57212143527
? Authoraffiliationids: 60012162
? Corresponding: Aiello O.

66.

? Title: Ultra-low power and minimal design effort interfaces for the internet of things: Invited paper
? Venue: 2019 4th IEEE International Circuits and Systems Symposium Icsys 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 14
? DOI: 10.1109/ICSyS47076.2019.8982478
? Scopus ID: 2-s2.0-85084279946
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Digital-to-Analog Converter | Fully-synthesizable | low area | low design effort | standard cell-based | technology portable | Wake-up oscillator
? Source Id: 21100985385
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60012162-60017161;60012162;60017161
? Corresponding: Aiello O.

67.
? Title: Fully Synthesizable Low-Area Digital-to-Analog Converter with Graceful Degradation and Dynamic Power-Resolution Scaling
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 38
? Doi: 10.1109/Tcsi.2019.2903464
? Scopus ID: 2-s2.0-85067827146
? Issn: 15498328
? eISSN: 15580806
? Volume: 66
? Issue: 8
? Pages: 2865-2875
? Authors: Aiello Orazio; Crovetti Paolo Stefano; Alioto Massimo
? Keywords: Digital-to-analog converter (DAC) | fully synthesizable | graceful degradation | power-resolution scaling
? Quartile:
2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2019:
? Subject (Q1, rank 105, percentile 84)
? Source Id: 11000153733
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161-60012162;60012162;60017161
? Corresponding: Aiello O.

68.
? Title: Breaking the boundaries between analogue and digital
? Venue: Electronics Letters
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 25
? DOI: 10.1049/el.2019.1622
? Scopus ID: 2-s2.0-85067796054
? Issn: 00135194
? Volume: 55

? Issue: 12
? Pages: 672-673
? Authors: Crovetti P. S.; Musolino F.; Aiello O.; Toledo P.; Rubino R.
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 624, percentile 37)
2019:
? Electrical and Electronic Engineering (Q2, rank 236, percentile 64)
? Source Id: 24918
? Author Ids: 6506207582;6506815932;57212143527;56435887500;26425174900
? Authoraffiliationids: 60012162;60012162;60012162;60012162;60012162
? Corresponding: Crovetti P.S.

69.
? Title: A pW-Power Hz-Range Oscillator Operating With a 0.3-1.8-V Unregulated Supply
? Venue: IEEE Journal of Solid State Circuits
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 54
? Doi: 10.1109/Jssc.2018.2886336
? Scopus ID: 2-s2.0-85065060653
? Issn: 00189200
? eISSN: 1558173X
? Volume: 54
? Issue: 5
? Pages: 1487-1496
? Authors: Aiello Orazio; Crovetti Paolo; Lin Longyang; Alioto Massimo
? Keywords: Internet of Things (IoT) | pW power | relaxation oscillator | ultra-low-power logic style
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 82, percentile 91)
2019:
? Electrical and Electronic Engineering (Q1, rank 58, percentile 91)
? Source Id: 17278
? Author Ids: 57212143527;6506207582;57193750534;7004256085
? Authoraffiliationids: 60017161-60012162;60012162;60017161;60017161
? Corresponding: Aiello O.

70.
? Title: Standard Cell-Based Ultra-Compact DACs in 40-nm CMOS
? Venue: IEEE Access
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 36
? Doi: 10.1109/Access.2019.2938737
? Scopus ID: 2-s2.0-85072578940
? eISSN: 21693536
? Volume: 7
? Pages: 126479-126488
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Automated design | Calibration | Digital to analog converter (DAC) | Fully digital | Fully synthesizable | Standard-cell-based analog circuits | Ultra-low design effort

? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2019:
? Engineering (all) (Q1, rank 47, percentile 84)
? Computer Science (all) (Q1, rank 45, percentile 79)
? Materials Science (all) (Q2, rank 155, percentile 66)
? Source Id: 21100374601
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60012162-60017161;60012162;60017161
? Corresponding: Aiello O.

71.
? Title: Wake-up oscillators with PW power consumption in dynamic leakage suppression logic
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Doi: 10.1109/Iscas.2019.8702365
? Scopus ID: 2-s2.0-85066814569
? Issn: 02714310
? Volume: 2019-May
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Dynamic Leakage Suppression logic | Internet of Things | PW-power | Relaxation oscillator | Wake-up oscillator
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2019:
? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)
? Source Id: 56190
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60012162-60017161;60012162;60017161
? Corresponding: Aiello O.

72.
? Title: A Sub-Leakage PW-Power Hz-Range Relaxation Oscillator Operating with 0.3V-1.8V Unregulated Supply
? Venue: IEEE Symposium on VLSI Circuits Digest of Technical Papers
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 22
? Doi: 10.1109/Vlsic.2018.8502413
? Scopus ID: 2-s2.0-85056811140
? Volume: 2018-June
? Pages: 119-120
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Source Id: 68673
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161-60012162;60012162;60017161
? Corresponding: Aiello O.

73.
? Title: Fully Synthesizable, Rail-to-Rail Dynamic Voltage Comparator for Operation down to 0.3 v
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 41
? Doi: 10.1109/Iscas.2018.8351106
? Scopus ID: 2-s2.0-85057087886
? Issn: 02714310
? Volume: 2018-May
? Authors: Aiello Orazio; Crovetti Paolo; Alioto Massimo
? Keywords: Dynamic voltage comparator | fully synthesizable | standard-cell design | ultra-low voltage
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2018:
? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)
? Source Id: 56190
? Author Ids: 57212143527;6506207582;7004256085
? Authoraffiliationids: 60017161;60012162;60017161
? Corresponding: Aiello O.
74.
? Title: Reliability of integrated overtemperature sensors in electromagnetic polluted environment
? Venue: Technologies for Smart Sensors and Sensor Fusion
? Year: 2017
? Type: Book
? Subtype: Book Chapter
? Citations: 0
? DOI: 10.1201/b16746
? Scopus ID: 2-s2.0-85051967553
? Pages: 437-449
? Authors: Aiello Orazio; Fiori Franco
? Source Id: 21100873850
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162
? Corresponding: Aiello O.
75.
? Title: Instrumented flexible active electrode matrix suitable for human computer interface applications
? Venue: Biomedical Physics and Engineering Express
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 2
? Doi: 10.1088/2057-1976/2/3/035020
? Scopus ID: 2-s2.0-85046241880
? eISSN: 20571976
? Volume: 2
? Issue: 3
? Authors: Aiello Orazio; Gargiulo Gaetano; McEwan Alistair

? Keywords: Bio-potential multi-channels acquisition systems | Biomedical and humancomputer applications | Biopotential recording | Flexible active electrode matrix | Scaled electrodes | Wearable devices
? Quartile:
2025:
? Nursing (all) (Q2, rank 54, percentile 62)
2016:
? Nursing (all) (Q3, rank 53, percentile 45)
? Source Id: 21100788266
? Author Ids: 57212143527;7005046530;14016086300
? Authoraffiliationids: 60017161;60017803;60090755
? Corresponding: Aiello O.

76.
? Title: Design of a neural recording amplifier robust to EMI
? Venue: 2013 Asia Pacific Symposium on Electromagnetic Compatibility Apemc 2013
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Apemc.2013.7360665
? Scopus ID: 2-s2.0-85002306648
? Authors: Aiello Orazio; Redoute Jean Michel
? Source Id: 21100788230
? Author Ids: 57212143527;9132437300
? Authoraffiliationids: 60012162;60019578
? Corresponding: Aiello O.

77.
? Title: Susceptibility to EMI of a Battery Management System IC for electric vehicles
? Venue: IEEE International Symposium on Electromagnetic Compatibility
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 31
? Doi: 10.1109/Isemc.2015.7256257
? Scopus ID: 2-s2.0-84953853695
? Issn: 10774076
? eISSN: 21581118
? Volume: 2015-Septmber
? Pages: 749-754
? Authors: Aiello Orazio; Crovetti Paolo S.; Fiori Franco
? Keywords: Anechoic Chamber | Battery Management System (BMS) | Direct Power Injection (DPI) | Electric Vehicles (EVs) | Hybrid Electric Vehicles (HEVs) | IC-level EMC | Li-ion Battery Pack | Susceptibility to Electromagnetic Interference (EMI)
? Source Id: 17274
? Author Ids: 57212143527;6506207582;7006940893
? Authoraffiliationids: 60027905;60012162;60012162
? Corresponding: Aiello O.

78.
? Title: Current sensing circuit for DC-DC converters based on the miller effect
? Venue: International Conference on Applied Electronics
? Year: 2013
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6

? Scopus ID: 2-s2.0-84890528719
? Issn: 18037232
? Authors: Aiello Orazio; Fiori Franco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q4, rank 822, percentile 17)
? Source Id: 20500195429
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162
? Corresponding: Aiello O.

79.
? Title: Design of a temperature-compensated CMOS relaxation oscillator
? Venue: International Conference on Applied Electronics
? Year: 2013
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-84890447597
? Issn: 18037232
? Authors: Aiello Orazio
? Quartile:
2025:
? Electrical and Electronic Engineering (Q4, rank 822, percentile 17)
? Source Id: 20500195429
? Author Ids: 57212143527
? Authoraffiliationids: 60012162
? Corresponding: Aiello O.

80.
? Title: A new MagFET-based integrated current sensor highly immune to EMI
? Venue: Microelectronics Reliability
? Year: 2013
? Type: Journal
? Subtype: Article
? Citations: 20
? DOI: 10.1016/j.microrel.2012.10.013
? Scopus ID: 2-s2.0-84875521166
? Issn: 00262714
? Volume: 53
? Issue: 4
? Pages: 573-581
? Authors: Aiello Orazio; Fiori Franco
? Quartile:
2025:
? Safety, Risk, Reliability and Quality (Q2, rank 84, percentile 67)
? Electrical and Electronic Engineering (Q2, rank 361, percentile 63)
? Condensed Matter Physics (Q2, rank 202, percentile 54)
? Surfaces, Coatings and Films (Q2, rank 63, percentile 54)
? Atomic and Molecular Physics, and Optics (Q2, rank 109, percentile 54)
? Electronic, Optical and Magnetic Materials (Q2, rank 153, percentile 50)
2013:
? Safety, Risk, Reliability and Quality (Q1, rank 23, percentile 81)
? Electrical and Electronic Engineering (Q2, rank 181, percentile 71)
? Surfaces, Coatings and Films (Q2, rank 28, percentile 71)
? Atomic and Molecular Physics, and Optics (Q2, rank 52, percentile 66)

? Electronic, Optical and Magnetic Materials (Q2, rank 75, percentile 62)
? Condensed Matter Physics (Q2, rank 146, percentile 62)
? Source Id: 26717
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162
? Corresponding: Aiello O.

81.
? Title: A new mirroring circuit for power MOS current sensing highly immune to EMI
? Venue: Sensors Switzerland
? Year: 2013
? Type: Journal
? Subtype: Article
? Citations: 20
? DOI: 10.3390/s130201856
? Scopus ID: 2-s2.0-84875178318
? Issn: 14248220
? Volume: 13
? Issue: 2
? Pages: 1856-1871
? Authors: Aiello Orazio; Fiori Franco
? Keywords: CMOS integrated circuit | Current sensor | Electromagnetic compatibility (EMC) | Electromagnetic interference (EMI) | Miller effect | SenseFET | Smart power
? Quartile:
2025:
? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)
2013:
? Atomic and Molecular Physics, and Optics (Q1, rank 27, percentile 82)
? Electrical and Electronic Engineering (Q1, rank 114, percentile 82)
? Analytical Chemistry (Q2, rank 36, percentile 62)
? Biochemistry (Q2, rank 180, percentile 51)
? Source Id: 130124
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162
? Corresponding: Aiello O.

82.
? Title: A new current sensor based on the Miller effect highly immune to EMI
? Venue: Cccc2012 Asia Pacific Symposium on Electromagnetic Compatibility Apemc 2012 Proceedings
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Apemc.2012.6238001
? Scopus ID: 2-s2.0-84864854553
? Pages: 69-72
? Authors: Aiello Orazio; Fiori Franco
? Source Id: 21100208078
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162

? Corresponding: Aiello O.

83.
? Title: On the susceptibility of embedded thermal shutdown circuit to radio frequency interference
? Venue: IEEE Transactions on Electromagnetic Compatibility
? Year: 2012
? Type: Journal
? Subtype: Article
? Citations: 17
? Doi: 10.1109/Temc.2011.2169964
? Scopus ID: 2-s2.0-84860192091
? Issn: 00189375
? Volume: 54
? Issue: 2
? Pages: 405-412
? Authors: Aiello Orazio; Fiori Franco
? Keywords: CMOS integrated circuits (ICs) | distortion | electromagnetic interference (EMI) | power semiconductor devices | temperature measurement
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 303, percentile 69)
? Condensed Matter Physics (Q2, rank 151, percentile 66)
? Atomic and Molecular Physics, and Optics (Q2, rank 83, percentile 65)
2012:
? Electrical and Electronic Engineering (Q1, rank 90, percentile 85)
? Atomic and Molecular Physics, and Optics (Q1, rank 23, percentile 84)
? Condensed Matter Physics (Q1, rank 64, percentile 83)
? Source Id: 26051
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60012162;60012162
? Corresponding: Aiello O.

84.
? Title: Investigation on the susceptibility of hall-effect current sensors to EMI
? Venue: Proceedings of EMC Europe 2011 York 10th International Symposium on Electromagnetic Compatibility
? Year: 2011
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Scopus ID: 2-s2.0-83155163797
? Pages: 368-372
? Authors: Aiello Orazio; Crovetti Paolo; Fiori Franco
? Source Id: 20700195003
? Author Ids: 57212143527;6506207582;7006940893
? Authoraffiliationids: 60012162;60012162;60012162
? Corresponding: Aiello O.

85.
? Title: A new current sensor based on MagFET highly immune to EMI
? Venue: Proceedings of the 2009 International Conference on Electromagnetics in Advanced Applications Iceaa 09
? Year: 2009
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4

? Doi: 10.1109/Iceaa.2009.5297310
? Scopus ID: 2-s2.0-72849114479
? Pages: 784-787
? Authors: Aiello O.; Fiori F.
? Source Id: 19500157425
? Author Ids: 57212143527;7006940893
? Authoraffiliationids: 60085203;60012162
? Corresponding: Aiello O.

86.
? Title: STDP with adaptive synaptic delay for robot navigation control
? Venue: Proceedings of SPIE the International Society for Optical Engineering
? Year: 2007
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1117/12.724204
? Scopus ID: 2-s2.0-36248941921
? Issn: 0277786x
? Volume: 6592
? Authors: Arena Paolo; Patanˆ' Luca; Distefano Francesco; Bucolo Sebastiano; Aiello Orazio
? Keywords: Hexapod robot | STDP | Visual cue-based navigation
? Quartile:
2025:
? Instrumentation (Q4, rank 157, percentile 16)
? Electrical and Electronic Engineering (Q4, rank 873, percentile 12)
? Computer Science Applications (Q4, rank 893, percentile 9)
? Applied Mathematics (Q4, rank 625, percentile 6)
? Electronic, Optical and Magnetic Materials (Q4, rank 294, percentile 5)
? Condensed Matter Physics (Q4, rank 425, percentile 4)
? Source Id: 40067
? Author Ids: 23003603300;6603946091;23004222200;23003779100;57212143527
? Authoraffiliationids: 60010146;60010146;60010146-60083732;60010146-60083732;60010146-60083732
? Corresponding: Arena P.