

Concepci3n Aldea

List of Publications by Year in descending order

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104
papers

546
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840585

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19
g-index

106
all docs

106
docs citations

106
times ranked

395
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Chaos-Based Bitwise Dynamical Pseudorandom Number Generator On FPGA. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 291-293. | 2.4 | 76 |
| 2 | Variable frequency sinusoidal oscillators based on CCII/sup +/. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 1386-1390. | 0.1 | 52 |
| 3 | Grounded resistor controlled sinusoidal oscillator using CFOAs. Electronics Letters, 1997, 33, 346. | 0.5 | 38 |
| 4 | Four-layer chemical fibre optic plasmon-based sensor. Sensors and Actuators B: Chemical, 1992, 7, 771-774. | 4.0 | 24 |
| 5 | Cost-Effective 1.25-Gb/s CMOS Receiver for 50-m Large-Core SI-POF Links. IEEE Photonics Technology Letters, 2012, 24, 485-487. | 1.3 | 15 |
| 6 | CMOS transimpedance amplifier with controllable gain for RF overlay. , 2016, , . | | 15 |
| 7 | Continuous-time filter featuring Q and frequency on-chip automatic tuning. International Journal of Circuit Theory and Applications, 2009, 37, 221-242. | 1.3 | 13 |
| 8 | Radio over Fiber: An Alternative Broadband Network Technology for IoT. Electronics (Switzerland), 2020, 9, 1785. | 1.8 | 13 |
| 9 | Reliable CMOS adaptive equalizer for short-haul optical networks. Microelectronics Reliability, 2014, 54, 110-118. | 0.9 | 12 |
| 10 | A Highly Linear Low-Noise Transimpedance Amplifier for Indoor Fiber-Wireless Remote Antenna Units. Electronics (Switzerland), 2019, 8, 437. | 1.8 | 12 |
| 11 | Industrial process sensor based on surface plasmon resonance (SPR) 1. Distillation process monitoring. Sensors and Actuators A: Physical, 1993, 37-38, 221-225. | 2.0 | 11 |
| 12 | Low-voltage low-power CMOS receiver front-end for gigabit short-reach optical communications. International Journal of Circuit Theory and Applications, 2013, 41, 1175-1187. | 1.3 | 11 |
| 13 | New Multilevel Bang-Bang Phase Detector. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 3384-3386. | 2.4 | 11 |
| 14 | A Low-Power CMOS Receiver for 1.25 Gb/s Over 1- mm SI-POF Links. IEEE Transactions on Industrial Electronics, 2014, 61, 4246-4254. | 5.2 | 11 |
| 15 | A physics based model for accumulation MOS capacitors. Solid-State Electronics, 2004, 48, 773-779. | 0.8 | 9 |
| 16 | Digitally programmable CMOS transconductor for very high frequency. Microelectronics Reliability, 2004, 44, 869-875. | 0.9 | 9 |
| 17 | A 1.7-GHz wide-band CMOS LC-VCO with 7-Bit coarse control. , 2015, , . | | 9 |
| 18 | A 1-V 1.25-Gbps CMOS analog front-end for short reach optical links. , 2013, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Continuous-Time Linear Equalizer for Multigigabit Transmission Through SI-POF in Factory Area Networks. IEEE Transactions on Industrial Electronics, 2015, 62, 6530-6532. | 5.2 | 8 |
| 20 | A 40–200 MHz programmable 4th-order G_m-C filter with auto-tuning system. Solid-State Circuits Conference, 2008 ESSCIRC 2008 34th European, 2007, , . | 0.0 | 7 |
| 21 | A CMOS continuous-time equalizer for short-reach optical communications. , 2011, , . | | 7 |
| 22 | High-resolution wide-band LC-VCO for reliable operation in phase-locked loops. Microelectronics Reliability, 2016, 63, 251-255. | 0.9 | 7 |
| 23 | Multi-Rate Adaptive Equalizer for Transmission Over Up to 50-m SI-POF. IEEE Photonics Technology Letters, 2017, 29, 587-590. | 1.3 | 7 |
| 24 | Programmable Low-Power Low-Noise Capacitance to Voltage Converter for MEMS Accelerometers. Sensors, 2017, 17, 67. | 2.1 | 7 |
| 25 | A technique for high frequency low distortion measurements. , 0, , . | | 6 |
| 26 | Video-frequency current-voltage mode integrator. Electronics Letters, 1999, 35, 773. | 0.5 | 6 |
| 27 | A Design Strategy for VHF Filters with Digital Programmability. , 0, , . | | 6 |
| 28 | Digitally Programmable Analogue Circuits for Sensor Conditioning Systems. Sensors, 2009, 9, 3652-3665. | 2.1 | 6 |
| 29 | 1–V continuous–time equalizers for multi–gigabit short–haul optical fiber communications. International Journal of Circuit Theory and Applications, 2014, 42, 146-164. | 1.3 | 6 |
| 30 | A 1 Gbps Chaos-Based Stream Cipher Implemented in 0.18 –m CMOS Technology. Electronics (Switzerland), 2019, 8, 623. | 1.8 | 6 |
| 31 | Low-Voltage Differentiator for VHF Filtering. Analog Integrated Circuits and Signal Processing, 2002, 33, 107-116. | 0.9 | 5 |
| 32 | A 62 dB dynamic range sixth-order band pass filter with 100-175 MHz tuning range. , 0, , . | | 5 |
| 33 | CMOS filter with wide digitally programmable VHF range. Electronics Letters, 2007, 43, 21. | 0.5 | 5 |
| 34 | A fully-differential adaptive equalizer using the spectrum-balancing technique. , 2013, , . | | 5 |
| 35 | A 2.5-Gb/s multi-rate continuous-time adaptive equalizer for short reach optical links. , 2015, , . | | 5 |
| 36 | Using the Wiimote to Learn MEMS in a Physics Degree Program. IEEE Transactions on Education, 2016, 59, 169-174. | 2.0 | 5 |

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|----|---|-----|-----------|
| 37 | A New Technique For Improving the Security of Chaos Based Cryptosystems. , 2018, , . | | 5 |
| 38 | Using hyperdata in a laboratory of electronics QR codes applied to experimental learning. , 2018, , . | | 5 |
| 39 | A 0.18 μ m CMOS 3rd-Order Digitally Programmable Gm-C Filter for VHF Applications. IEICE Transactions on Information and Systems, 2005, E88-D, 1509-1510. | 0.4 | 5 |
| 40 | A 2.5 Gb/s low-voltage CMOS fully-differential adaptive equalizer. , 2013, , . | | 4 |
| 41 | Single-Chip Receiver for 1.25 Gb/s Over 50-m SI-POF. IEEE Photonics Technology Letters, 2015, 27, 1220-1223. | 1.3 | 4 |
| 42 | Transimpedance amplifier with programmable gain and bandwidth for capacitive MEMS accelerometers. , 2017, , . | | 4 |
| 43 | Model-based teaching of physics in higher education: a review of educational strategies and cognitive improvements. Journal of Applied Research in Higher Education, 2020, 13, 33-47. | 1.1 | 4 |
| 44 | Modeling of accumulation MOS capacitors for high performance analog circuits. , 0, , . | | 3 |
| 45 | Low-voltage CMOS variable preamplifier for fiber-based gigabit ethernet. , 2007, , . | | 3 |
| 46 | Highly-linear transimpedance amplifier for remote antenna units. , 2018, , . | | 3 |
| 47 | Low-EVM CMOS Transimpedance Amplifier for Intermediate Frequency over Fiber. , 2018, , . | | 3 |
| 48 | CMOS pseudo-differential transconductor for VHF applications. Electronics Letters, 1999, 35, 1540. | 0.5 | 2 |
| 49 | Pseudo-differential integrator for UHF applications in digital CMOS technologies. , 0, , . | | 2 |
| 50 | Fast-Settling Envelope Detectors. , 2006, , . | | 2 |
| 51 | 0.18 μ m CMOS inductorless AGC amplifier with 50dB input dynamic range for 10GBase-LX4 ethernet. , 2009, , . | | 2 |
| 52 | A 1-V CMOS receiver front-end for high-speed SI-POF links. , 2012, , . | | 2 |
| 53 | Multi-gigabit analog equalizers for plastic opticalfibers. Microelectronics Journal, 2013, 44, 870-879. | 1.1 | 2 |
| 54 | Bang-bang phase detector model revisited. , 2013, , . | | 2 |

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|----|--|-----|-----------|
| 55 | CMOS receiver with equalizer and CDR for short-reach optical communications. , 2013, , . | | 2 |
| 56 | Fully-differential transimpedance amplifier for reliable wireless communications. Microelectronics Reliability, 2018, 83, 25-28. | 0.9 | 2 |
| 57 | A New Lightweight CSPRNG Implemented in a 0.18 ¹ / ₄ m CMOS Technology. , 2019, , . | | 2 |
| 58 | A low-voltage high-frequency integrator for CMOS continuous-time current-mode filters. , 0, , . | | 1 |
| 59 | Low voltage LC -ladder Gm-C low-pass filters with 42-215 MHz tunable range. , 0, , . | | 1 |
| 60 | Digital self-tuning technique for continuous-time filters. , 2005, , . | | 1 |
| 61 | Digital Auto-Tuning System for Analog Filters. , 2006, , . | | 1 |
| 62 | Design of a High-performance Envelope Detector. , 2006, , . | | 1 |
| 63 | VHF Filtering with Digital Programmability and Accumulation MOS-C. Midwest Symposium on Circuits and Systems, 2006, , . | 1.0 | 1 |
| 64 | A hybrid fine/coarse auto-tuning scheme for digitally programmable VHF G<inf>m</inf>-C filters. Midwest Symposium on Circuits and Systems, 2007, , . | 1.0 | 1 |
| 65 | Continuous-Time Analog Filtering: Design Strategies and Programmability in CMOS Technologies for VHF Applications. , 2010, , . | | 1 |
| 66 | A CMOS equalizer for short-reach optical communications. , 2011, , . | | 1 |
| 67 | A 1-V CMOS front-end for high-speed 1-mm SI-POF links. , 2012, , . | | 1 |
| 68 | Design considerations for loop filters in continuous-time adaptive equalizers. , 2014, , . | | 1 |
| 69 | A 1-V CMOS double loop continuous-time adaptive equalizer for short-haul optical networks. , 2014, , . | | 1 |
| 70 | Applets for Physical Electronics learning. , 2014, , . | | 1 |
| 71 | A phaseâ€space model to describe bangâ€bang phase detectors. International Journal of Circuit Theory and Applications, 2015, 43, 829-839. | 1.3 | 1 |
| 72 | 1-V continuous-time linear equalizer for up to 2 Gb/s over 50-m SI-POF. , 2015, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Design of a CMOS multi-rate adaptive continuous-time equalizer based on power spectrum estimation. International Journal of Circuit Theory and Applications, 2017, 45, 2226-2242. | 1.3 | 1 |
| 74 | Programmable differential capacitance-to-voltage converter for MEMS accelerometers. Proceedings of SPIE, 2017, , . | 0.8 | 1 |
| 75 | A methodology to design continuous-time adaptive equalizers. International Journal of Circuit Theory and Applications, 2017, 45, 1203-1217. | 1.3 | 1 |
| 76 | ICT-Based Didactic Strategies to Build Knowledge Models in Electronics in Higher Education. , 2019, , . | | 1 |
| 77 | High-Sensitivity Large-Area Photodiode Read-Out Using a Divide-and-Conquer Technique. Sensors, 2020, 20, 6316. | 2.1 | 1 |
| 78 | Noise Reduction Technique using Multiple Photodiodes in Optical Receivers for POF Communications. , 2021, , . | | 1 |
| 79 | Intervención en el aula basada en recursos educativos de libre acceso. , 2019, , . | | 1 |
| 80 | Approach to the realization of state variable based oscillators. , 0, , . | | 0 |
| 81 | Optimized design for the high-swing cascode mirror. , 0, , . | | 0 |
| 82 | Continuous time low-pass filter for video frequency applications. , 0, , . | | 0 |
| 83 | A 200 MHz MOST-only resonator. , 0, , . | | 0 |
| 84 | Continuous-Time 4th Order Butterworth Low-Pass Filter for Video Frequency Applications. Analog Integrated Circuits and Signal Processing, 2001, 28, 35-42. | 0.9 | 0 |
| 85 | Low voltage VHF biquad section. Electronics Letters, 2002, 38, 1177. | 0.5 | 0 |
| 86 | Tuning System for CMOS HF Analog Filters. , 0, , . | | 0 |
| 87 | Design Techniques for VHF Filtering in Digital CMOS Technologies. , 0, , . | | 0 |
| 88 | Continuous-time filter featuring Q and frequency on-chip automatic tuning. , 2007, , . | | 0 |
| 89 | A tunable mixed-mode interface circuit for sensor conditioning. , 2008, , . | | 0 |
| 90 | Development of remote laboratory experiences in Microelectronics and Intelligent Instrumentation. , 2009, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | A 1.25 Gb/s fully integrated optical receiver for SI-POF applications. , 2013, , . | | 0 |
| 92 | A double loop continuous-time adaptive equalizer. , 2014, , . | | 0 |
| 93 | Wikisensors: A wiki from students for students. , 2014, , . | | 0 |
| 94 | MEMS: From the classroom to the Wii. , 2014, , . | | 0 |
| 95 | A new equalizer for 2 Gb/s short-reach SI-POF links. , 2015, , . | | 0 |
| 96 | A CMOS merged CDR and continuous-time adaptive equalizer. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 97 | Quick response codes as a complement for the teaching of Electronics in laboratory activities. International Journal of Electrical Engineering and Education, 2020, , 002072092091643. | 0.4 | 0 |
| 98 | Enhanced eBooks in the teaching/learning process of electronics. , 0, , . | | 0 |
| 99 | Electrónica enREDada: An experience with a webinar program. , 0, , . | | 0 |
| 100 | Uso de Hiperdatos en un Laboratorio de Electrónica (Códigos QR) - [Use of Hyperdata in a Laboratory of Electronics (QR Codes)]. , 2017, , . | | 0 |
| 101 | WOMEN IN STEM BY EULES: A PROJECT TO PROMOTE SCIENTIFIC VOCATIONS IN GIRLS. , 2018, , . | | 0 |
| 102 | Projects to encourage female students in STEM areas. , 0, , . | | 0 |
| 103 | USING TWITTER TO PROMOTE THE TEACHING-LEARNING OF SCIENTIFIC DISCIPLINES. , 2019, , . | | 0 |
| 104 | OPEN EDUCATIONAL RESOURCES TO IMPLEMENT AN ONLINE TUTORING. , 2019, , . | | 0 |