

# Concepcin Aldea

## List of Publications by Year in Descending Order

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

65  
papers

352  
citations

9  
h-index

15  
g-index

106  
ext. papers

463  
ext. citations

2.3  
avg, IF

3.36  
L-index

#	Paper	IF	Citations
65	Radio over Fiber: An Alternative Broadband Network Technology for IoT. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1785	2.6	9
64	Quick response codes as a complement for the teaching of Electronics in laboratory activities. <i>International Journal of Electrical Engineering and Education</i> , <b>2020</b> , 002072092091643	0.6	
63	High-Sensitivity Large-Area Photodiode Read-Out Using a Divide-and-Conquer Technique. <i>Sensors</i> , <b>2020</b> , 20,	3.8	0
62	Model-based teaching of physics in higher education: a review of educational strategies and cognitive improvements. <i>Journal of Applied Research in Higher Education</i> , <b>2020</b> , 13, 33-47	1	2
61	A 1 Gbps Chaos-Based Stream Cipher Implemented in 0.18 $\mu$ m CMOS Technology. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 623	2.6	4
60	A New Lightweight CSPRNG Implemented in a 0.18 $\mu$ m CMOS Technology <b>2019</b> ,		1
59	A Highly Linear Low-Noise Transimpedance Amplifier for Indoor Fiber-Wireless Remote Antenna Units. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 437	2.6	8
58	ICT-Based Didactic Strategies to Build Knowledge Models in Electronics in Higher Education <b>2019</b> ,		1
57	Chaos-Based Bitwise Dynamical Pseudorandom Number Generator On FPGA. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 291-293	5.2	47
56	Fully-differential transimpedance amplifier for reliable wireless communications. <i>Microelectronics Reliability</i> , <b>2018</b> , 83, 25-28	1.2	1
55	A New Technique For Improving the Security of Chaos Based Cryptosystems <b>2018</b> ,		3
54	Highly-linear transimpedance amplifier for remote antenna units <b>2018</b> ,		2
53	Low-EVM CMOS Transimpedance Amplifier for Intermediate Frequency over Fiber <b>2018</b> ,		2
52	Design of a CMOS multi-rate adaptive continuous-time equalizer based on power spectrum estimation. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 2226-2242	2	1
51	Multi-Rate Adaptive Equalizer for Transmission Over Up to 50-m SI-POF. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 587-590	2.2	5
50	Programmable differential capacitance-to-voltage converter for MEMS accelerometers <b>2017</b> ,		1
49	A methodology to design continuous-time adaptive equalizers. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 1203-1217	2	1

48	CMOS transimpedance amplifier with controllable gain for RF overlay <b>2016,</b>		9
47	Using the Wiimote to Learn MEMS in a Physics Degree Program. <i>IEEE Transactions on Education,</i> <b>2016,</b> 59, 169-174	2.1	4
46	Programmable Low-Power Low-Noise Capacitance to Voltage Converter for MEMS Accelerometers. <i>Sensors,</i> <b>2016,</b> 17,	3.8	4
45	High-resolution wide-band LC-VCO for reliable operation in phase-locked loops. <i>Microelectronics Reliability,</i> <b>2016,</b> 63, 251-255	1.2	5
44	Single-Chip Receiver for 1.25 Gb/s Over 50-m SI-POF. <i>IEEE Photonics Technology Letters,</i> <b>2015,</b> 27, 1220-1223		4
43	A 1.7-GHz wide-band CMOS LC-VCO with 7-Bit coarse control <b>2015,</b>		4
42	Continuous-Time Linear Equalizer for Multigigabit Transmission Through SI-POF in Factory Area Networks. <i>IEEE Transactions on Industrial Electronics,</i> <b>2015,</b> 62, 6530-6532	8.9	7
41	A phase-space model to describe bang-bang phase detectors. <i>International Journal of Circuit Theory and Applications,</i> <b>2015,</b> 43, 829-839	2	1
40	Design considerations for loop filters in continuous-time adaptive equalizers <b>2014,</b>		1
39	A Low-Power CMOS Receiver for 1.25 Gb/s Over 1- mm SI-POF Links. <i>IEEE Transactions on Industrial Electronics,</i> <b>2014,</b> 61, 4246-4254	8.9	7
38	Reliable CMOS adaptive equalizer for short-haul optical networks. <i>Microelectronics Reliability,</i> <b>2014,</b> 54, 110-118	1.2	6
37	1-V continuous-time equalizers for multi-gigabit short-haul optical fiber communications. <i>International Journal of Circuit Theory and Applications,</i> <b>2014,</b> 42, 146-164	2	5
36	Low-voltage low-power CMOS receiver front-end for gigabit short-reach optical communications. <i>International Journal of Circuit Theory and Applications,</i> <b>2013,</b> 41, 1175-1187	2	8
35	A fully-differential adaptive equalizer using the spectrum-balancing technique <b>2013,</b>		2
34	Multi-gigabit analog equalizers for plastic opticalfibers. <i>Microelectronics Journal,</i> <b>2013,</b> 44, 870-879	1.8	1
33	<b>2013,</b>		1
32	CMOS receiver with equalizer and CDR for short-reach optical communications <b>2013,</b>		2
31	A 2.5 Gb/s low-voltage CMOS fully-differential adaptive equalizer <b>2013,</b>		3

30	A 1-V 1.25-Gbps CMOS analog front-end for short reach optical links <b>2013</b> ,			5
29	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 3384-3386		5.2	10
28	Cost-Effective 1.25-Gb/s CMOS Receiver for 50-m Large-Core SI-POF Links. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 485-487		2.2	13
27	A 1-V CMOS receiver front-end for high-speed SI-POF links <b>2012</b> ,			2
26	<b>2011</b> ,			6
25	A CMOS equalizer for short-reach optical communications <b>2011</b> ,			1
24	Digitally programmable analogue circuits for sensor conditioning systems. <i>Sensors</i> , <b>2009</b> , 9, 3652-65	3.8		5
23	Continuous-time filter featuring Q and frequency on-chip automatic tuning. <i>International Journal of Circuit Theory and Applications</i> , <b>2009</b> , 37, 221-242	2		12
22	0.18 $\mu$ m CMOS inductorless AGC amplifier with 50dB input dynamic range for 10GBase-LX4 ethernet <b>2009</b> ,			2
21	A 4000 MHz programmable 4th-order Gm-C filter with auto-tuning system. <i>Solid-State Circuits Conference, 2008 ESSCIRC 2008 34th European</i> , <b>2007</b> ,			3
20	CMOS filter with wide digitally programmable VHF range. <i>Electronics Letters</i> , <b>2007</b> , 43, 21	1.1		3
19	A hybrid fine/coarse auto-tuning scheme for digitally programmable VHF Gm-C filters. <i>Midwest Symposium on Circuits and Systems</i> , <b>2007</b> ,	1		1
18	VHF Filtering with Digital Programmability and Accumulation MOS-C. <i>Midwest Symposium on Circuits and Systems</i> , <b>2006</b> ,	1		1
17	Digital Auto-Tuning System for Analog Filters <b>2006</b> ,			1
16	A physics based model for accumulation MOS capacitors. <i>Solid-State Electronics</i> , <b>2004</b> , 48, 773-779	1.7		6
15	Digitally programmable CMOS transconductor for very high frequency. <i>Microelectronics Reliability</i> , <b>2004</b> , 44, 869-875	1.2		4
14	Low-Voltage Differentiator for VHF Filtering. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2002</b> , 33, 107-116	1.2		1
13	Low voltage VHF biquad section. <i>Electronics Letters</i> , <b>2002</b> , 38, 1177	1.1		

12	Continuous-Time 4th Order Butterworth Low-Pass Filter for Video Frequency Applications. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2001</b> , 28, 35-42	1.2	
11	Video-frequency current-voltage mode integrator. <i>Electronics Letters</i> , <b>1999</b> , 35, 773	1.1	4
10	CMOS pseudo-differential transconductor for VHF applications. <i>Electronics Letters</i> , <b>1999</b> , 35, 1540	1.1	
9	Variable frequency sinusoidal oscillators based on CCII/sup +/-. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>1999</b> , 46, 1386-1390		33
8	Grounded resistor controlled sinusoidal oscillator using CFOAs. <i>Electronics Letters</i> , <b>1997</b> , 33, 346	1.1	30
7	Industrial process sensor based on surface plasmon resonance (SPR) 1. Distillation process monitoring. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 221-225	3.9	7
6	Four-layer chemical fibre optic plasmon-based sensor. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 771-778	4.5	22
5	A technique for high frequency low distortion measurements		2
4	A design strategy for VHF filters with digital programmability		2
3	Modeling of accumulation MOS capacitors for high performance analog circuits		1
2	A 62 dB dynamic range sixth-order band pass filter with 100-175 MHz tuning range		3
1	Pseudo-differential integrator for UHF applications in digital CMOS technologies		1