

Kamal El-Sankary

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Lung Mechanics Tracking With Forced Oscillation Technique (FOT) Based on CMOS Synchronous Demodulation Principle. IEEE Transactions on Biomedical Circuits and Systems, 2023, 17, 1282-1292.	4.0	2
2	A Blind Background Calibration Technique for Super-Regenerative Receivers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 344-348.	3.0	1
3	High Frequency-Low Amplitude Oscillometry: Continuous Unobtrusive Monitoring of Respiratory Function on PAP Machines. IEEE Transactions on Biomedical Engineering, 2022, 69, 2202-2211.	4.2	2
4	Design of Time-Mode PI Controller for Switched-Capacitor DC/DC Converter Using Differential Evolution Algorithm—A Design Methodology. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 5621-5634.	2.7	2
5	A PVT Compensated Resistance to Frequency Converter for Sensor Array Read-Out. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2418-2422.	3.0	1
6	An Efficient PV Battery Charger/Harvester for Low Power Applications, Suitable for Heavily Overcast Operations. IEEE Open Journal of Power Electronics, 2022, 3, 290-302.	5.7	4
7	A 14.5-Bit ENOB, 10MS/s SAR-ADC With 2 nd Order Hybrid Passive-Active Resonator Noise Shaping. IEEE Access, 2022, 10, 54589-54598.	4.2	1
8	Memory Optimized Hardware Implementation of Open FEC Encoder. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 1548-1552.	3.1	2
9	Efficient Implementation of 400 Gbps Optical Communication FEC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 496-509.	5.4	6
10	CNN Inference Using a Preprocessing Precision Controller and Approximate Multipliers With Various Precisions. IEEE Access, 2021, 9, 7220-7232.	4.2	20
11	A High-Performance OTA with Hybrid of Inverter-Based OTA and Nauta OTA for High Speed Applications. , 2021, , .		3
12	Dual segmentation approximate multiplier. Electronics Letters, 2021, 57, 718-720.	1.0	4
13	A Type-II Analog PLL with Time-Domain Processing. , 2021, , .		2
14	Respiratory Bidirectional Ultrasonic TOF Flow Sensor Resilience to Ambient Temperature Fluctuations. IEEE Sensors Journal, 2021, 21, 18920-18931.	4.7	6
15	A High Bandwidth-Power Efficiency, Low THD _{2,3} Driver Amplifier with Dual-Loop Active Frequency Compensation for High-Speed Applications. Electronics (Switzerland), 2021, 10, 2311.	3.1	0
16	Area- and Power-Efficient Staircase Encoder Implementation for High-Throughput Fiber-Optical Communications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 843-847.	3.1	5
17	Low Power Photo-Voltaic Harvesting Matrix Based Boost DC-DC Converter with Recycled and Synchro-Recycled Scheme. Journal of Low Power Electronics and Applications, 2020, 10, 39.	2.0	4
18	Phase-domain ADC with \hat{f} -modulation frequency tracking loop. Analog Integrated Circuits and Signal Processing, 2020, 104, 183-189.	1.4	0

#	ARTICLE	IF	CITATIONS
19	A 0.2 pJ/step open loop VCO-based ADC with inverse $\sqrt{2}$ R preweighted linearization. Analog Integrated Circuits and Signal Processing, 2020, 104, 103-108.	1.4	1
20	Practical Considerations for Accuracy Evaluation in Sensor-Based Machine Learning and Deep Learning. Sensors, 2019, 19, 3491.	3.8	11
21	A Low-Power, High-Sensitivity, OOK-Super-Regenerative Receiver for WBANs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 793-797.	3.0	4
22	Supply-Insensitive Digitally Controlled Delay Lines for 3-D IC Clock Synchronization Architectures. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1480-1484.	3.1	5
23	Deep Learning Training with Simulated Approximate Multipliers. , 2019, , .		5
24	A PVT-Robust Super-Regenerative Receiver with Background Frequency Calibration and Concurrent Quenching Waveform. Electronics (Switzerland), 2019, 8, 1119.	3.1	3
25	A Comparative Study on Machine Learning Algorithms for the Control of a Wall Following Robot. , 2019, , .		13
26	Trade-Offs Between Efficiency and Output Voltage of a Single Boost DC-DC Converter for Photo-Voltaic Low Power Harvesting Applications. , 2019, , .		6
27	CMOS Voltage Reference using a Self-Cascode Composite Transistor and a Schottky Diode. Electronics (Switzerland), 2019, 8, 1271.	3.1	2
28	Time-Varying Respiratory Mechanics as a Novel Mechanism Behind Frequency Dependence of Impedance: A Modeling Approach. IEEE Transactions on Biomedical Engineering, 2019, 66, 2433-2446.	4.2	9
29	VCO-Based ADC With Built-In Supply Noise Immunity Using Injection-Locked Ring Oscillators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1089-1093.	3.0	6
30	Tracking Respiratory Mechanics With Oscillometry: Introduction of Time-Varying Error. IEEE Sensors Journal, 2019, 19, 311-321.	4.7	2
31	Energy-Aware Encryption for Securing Video Transmission in Internet of Multimedia Things. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 610-624.	8.3	25
32	Design of Frequency Modulated Fuzzy Logic Controller for Switched Capacitor Converter. , 2018, , .		0
33	A blind digital background calibration for all-digital VCO-based ADC. Analog Integrated Circuits and Signal Processing, 2018, 97, 387-394.	1.4	0
34	Impact of Approximate Multipliers on VGG Deep Learning Network. IEEE Access, 2018, 6, 60438-60444.	4.2	45
35	Beyond Rail-to-Rail Compliant Current Sources for Mismatch-Insensitive Voltage-to-Time Conversion. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2165-2169.	3.1	0
36	Preweighted Linearized VCO Analog-to-Digital Converter. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 1983-1987.	3.1	14

#	ARTICLE	IF	CITATIONS
37	Offset-injection digital background calibration for VCO-based ADC. Analog Integrated Circuits and Signal Processing, 2017, 92, 501-506.	1.4	1
38	A linearized wideband low noise amplifier in 65nm CMOS for multi-standard RF communication applications. , 2017, , .		1
39	Distortion Analysis Using Volterra Series and Linearization Technique of Nano-Scale Bulk-Driven CMOS RF Amplifier. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 19-28.	5.4	14
40	Crosstalk Rejection in 3-D-Stacked Interchip Communication With Blind Source Separation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 726-730.	3.0	4
41	Wideband complementary metal-oxide-semiconductor double-bulk harmonic-rejection mixer. IET Circuits, Devices and Systems, 2015, 9, 237-243.	1.4	1
42	A methodology to design bulk-driven mixer with harmonic mixing rejection. Analog Integrated Circuits and Signal Processing, 2013, 77, 503-511.	1.4	2
43	Stochastic ADC with random U-quadratic distributed reference voltages to uniformly distribute comparators trip point. Analog Integrated Circuits and Signal Processing, 2013, 74, 461-465.	1.4	5
44	A high-output impedance, wide swing bulk-driven current source with dynamic biasing. , 2012, , .		3
45	A UHF current-mode continuous-time band-pass delta sigma modulator using fully balanced active inductor. Analog Integrated Circuits and Signal Processing, 2011, 67, 261-272.	1.4	1
46	High-voltage DMOS integrated circuits using floating-gate protection technique. Analog Integrated Circuits and Signal Processing, 2010, 62, 223-235.	1.4	2
47	Enhanced RF to DC CMOS rectifier with capacitor-bootstrapped transistor. , 2010, , .		8
48	A high-order curvature compensation technique for bandgap voltage reference using subthreshold MOSFETs. International Journal of Electronics, 2010, 97, 783-796.	1.4	5
49	Design of low-voltage wide tuning range CMOS multipass voltage-controlled ring oscillator. , 2010, , .		6
50	High-Speed AES Encryptor With Efficient Merging Techniques. IEEE Embedded Systems Letters, 2010, 2, 67-71.	1.9	54
51	A Distortion-Compensated Charge Transfer Amplifier for a 1.66-MHz Cyclic Pipeline ADC. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 507-511.	3.0	1
52	An Adaptive ELD Compensation Technique Using a Predictive Comparator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 619-623.	3.0	4
53	A charge sampling baseband filter using a new high linearity $G_{m<inf>}$ for multimode receiver. , 2009, , .		0
54	Bandgap reference with curvature corrected compensation using subthreshold MOSFETs. , 2009, , .		8