Yong-Bin Kim

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5752745/publications.pdf

Version: 2024-02-01

107	1,596	13	27
papers	citations	h-index	g-index
108	108	108	972
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	A Tunable High-Gain Low-Noise Transimpedance Amplifier for Biosensing. , 2020, , .		О
2	Low Power Digital Temperature Sensor Using Modified Inverter Interlaced Cascaded Delay Cell. , 2018, , .		0
3	Area Efficient 4Gb/s Clock Data Recovery Using Improved Phase Interpolator with Error Monitor. , 2018, , .		O
4	A Two-Parameter Calibration Technique Tracking Temperature Variations for Current Source Mismatch. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 387-391.	2.2	9
5	Fully Integrated on-Chip Switched DC–DC Converter for Battery-Powered Mixed-Signal SoCs. Symmetry, 2017, 9, 18.	1.1	5
6	A quarter-rate 3-tap DFE for 4Gbps data rate with switched-capapctiors based 1st speculative tap., 2017,		2
7	Time-domain temperature sensor based on interlaced hysteresis delay cells. , 2017, , .		О
8	An Area Efficient 4Gb/s Half-Rate 3-Tap DFE with Current-Integrating Summer for Data Correction. , 2016, , .		2
9	Global clock distribution using standing wave resonant on transmission lines. , 2015, , .		О
10	A low jitter PLL design using active loop filter and low-dropout regulator for supply regulation. , 2015, , .		1
11	Noise Reduction Technique Through Bandwidth Switching for Switched-Capacitor Amplifier. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1707-1715.	3.5	10
12	A 10-Gb/s receiver with a continuous-time linear equalizer and 1-tap decision-feedback equalizer. , 2015, , .		9
13	A 12-bit 32MS/s SAR ADC using built-in self calibration technique to minimize capacitor mismatch. , 2014,		6
14	A built-in calibration system to optimize third-order intermodulation performance of RF amplifiers. , 2014, , .		5
15	A novel self-calibration scheme for 12-bit 50MS/s SAR ADC. , 2014, , .		2
16	Full custom implementation of a S-Box circuit architecture using power gated PLA structure. , 2014, , .		0
17	A built-in calibration system with a reduced FFT engine for linearity optimization of low power LNA. , 2014, , .		2
18	Asynchronous circuit design using new high speed NCL gates. , 2014, , .		3

#	Article	IF	CITATIONS
19	Asynchronous Advanced Encryption Standard Hardware with Random Noise Injection for Improved Side-Channel Attack Resistance. Journal of Electrical and Computer Engineering, 2014, 2014, 1-13.	0.6	12
20	Accurate and Efficient On-Chip Spectral Analysis for Built-In Testing and Calibration Approaches. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 497-506.	2.1	20
21	Calibration technique tracking temperature for current-steering digital-to-analog converters. , 2014, , .		4
22	A low power high resolution digital PWM with process and temperature calibrations for digital controlled DC-DC converters. , $2014, \ldots$		1
23	A high performance modulo $2 < sup > n < / sup > +1$ squarer design based on carbon nanotube technology. , 2013, , .		0
24	Low power Null Convention Logic circuit design based on DCVSL., 2013,,.		8
25	A 10-bit 64MS/s SAR ADC using variable clock period method. , 2013, , .		1
26	Implementation of CMOS neuron for robot motion control unit., 2013,,.		1
27	A CMOS Low-Power Digital Polar Modulator System Integration for WCDMA Transmitter. IEEE Transactions on Industrial Electronics, 2012, 59, 1154-1160.	5.2	8
28	A novel 4-to-3 step-down on-chip SC DC-DC converter with reduced bottom-plate loss., 2012,,.		1
29	All-digital phased-locked loop with local passive interpolation time-to-digital converter based on a tristate inverter. , 2012, , .		4
30	A novel sort error hardened 10T SRAM cells for low voltage operation. , 2012, , .		59
31	Soft error masking latch for sub-threshold voltage operation. , 2012, , .		4
32	Configurable logic block (CLB) design for Asynchronous Nanowire Crossbar system., 2012,,.		0
33	Post-configuration repair strategy for asynchronous nanowire crossbar system. , 2012, , .		0
34	Low power, high PVT variation tolerant central pattern generator design for a bio-hybrid micro robot., 2012,,.		7
35	A design and integration of Parametric Measurement Unit on to a 600MHz DCL. , 2012, , .		1
36	Design and evaluation of Side Channel Attack resistant asynchronous AES Round Function. , 2012, , .		0

#	Article	IF	CITATIONS
37	A high speed low power modulo 2 lt;sup 8 gt;n 8 lt;/sup 8 gt;+ 1 multiplier design using carbon-nanotube technology. , 2012 , , .		8
38	Design of a Ternary Memory Cell Using CNTFETs. IEEE Nanotechnology Magazine, 2012, 11, 1019-1025.	1.1	116
39	A novel low-power, low-offset, and high-speed CMOS dynamic latched comparator. Analog Integrated Circuits and Signal Processing, 2012, 70, 337-346.	0.9	51
40	Hybrid CMOS and CNFET Power Gating in Ultralow Voltage Design. IEEE Nanotechnology Magazine, 2011, 10, 1439-1448.	1.1	18
41	CNTFET-Based Design of Ternary Logic Gates and Arithmetic Circuits. IEEE Nanotechnology Magazine, 2011, 10, 217-225.	1.1	430
42	The novel Switched-Capacitor DC-DC converter for fast response time and reduced ripple. , 2011, , .		7
43	A 11-Transistor Nanoscale CMOS Memory Cell for Hardening to Soft Errors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 900-904.	2.1	58
44	Random dynamic voltage scaling design to enhance security of NCL S-box., 2011,,.		4
45	A low power 65nm CMOS electronic neuron and synapse design for a biomimetic micro-robot. , 2011, , .		4
46	Design and analysis of a quad-ferential ampilifer. , 2011, , .		0
47	Standby Leakage Power Reduction Technique for Nanoscale CMOS VLSI Systems. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1127-1133.	2.4	63
48	A Low-Power Digitally Controlled Oscillator for All Digital Phase-Locked Loops. VLSI Design, 2010, 2010, 1-11.	0.5	15
49	Ultra low-voltage Delay Locked Loop using carbon nanotubes. , 2010, , .		0
50	Modelling a CNTFET with Undeposited CNT Defects. , 2010, , .		4
51	High speed and low power transceiver design with CNFET and CNT bundle interconnect. , 2010, , .		13
52	A 65nm CMOS ultra low power and low noise $131M$ front-end transimpedance amplifier. , $2010, , .$		4
53	A low power 100MΩ CMOS front-end transimpedance amplifier for biosensing applications. , 2010, , .		14
54	A low-offset high-speed double-tail dual-rail dynamic latched comparator. , 2010, , .		20

#	Article	IF	Citations
55	Design of a CNTFET-Based SRAM Cell by Dual-Chirality Selection. IEEE Nanotechnology Magazine, 2010, 9, 30-37.	1.1	86
56	Design and performance measurement of efficient IDEA (International Data Encryption Algorithm) crypto-hardware using novel modular arithmetic components. , $2010, , .$		7
57	Probabilistic analysis of design mapping in asynchronous nanowire crossbar architecture., 2009,,.		1
58	A novel technique to minimize standby leakage power in nanoscale CMOS VLSI. , 2009, , .		7
59	A novel design technique for soft error hardening of Nanoscale CMOS memory. , 2009, , .		6
60	Statistical timing and leakage power analysis of PD-SOI digital circuits. Analog Integrated Circuits and Signal Processing, 2009, 60, 127-136.	0.9	2
61	A novel all-digital phase-locked loop with ultra fast frequency and phase acquisition. , 2009, , .		5
62	A novel design methodology to optimize the speed and power of the CNTFET circuits. , 2009, , .		54
63	A Novel Hardened Design of a CMOS Memory Cell at 32nm. , 2009, , .		4
64	Errors in DNA Self-Assembly by Synthesized Tile Sets. , 2009, , .		2
65	A Novel Adaptive Design Methodology for Minimum Leakage Power Considering PVT Variations on Nanoscale VLSI Systems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 517-528.	2.1	39
66	Monomer Control for Error Tolerance in DNA Self-Assembly. Journal of Electronic Testing: Theory and Applications (JETTA), 2008, 24, 271-284.	0.9	0
67	A low power 8T SRAM cell design technique for CNFET. , 2008, , .		15
68	A new SRAM cell design using CNTFETs. , 2008, , .		43
69	A 12-bit digitally controlled oscillator with low power consumption. , 2008, , .		17
70	Low power 8T SRAM using 32nm independent gate FinFET technology. , 2008, , .		6
71	New SRAM Cell Design for Low Power and High Reliability Using 32nm Independent Gate FinFET Technology. , 2008, , .		10
72	An all-digital phase-locked loop with fast acquisition and low jitter. , 2008, , .		0

#	Article	IF	CITATIONS
73	A Highly-Stable Nanometer Memory for Low-Power Design. , 2008, , .		18
74	Standby power reduction using optimal supply voltage and body-bias voltage. IEICE Electronics Express, 2008, 5, 556-561.	0.3	5
75	Energy efficient PWAM transmitter design. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	О
76	Circuit implementation of FitzHugh-Nagumo neuron model using Field Programmable Analog Arrays. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	9
77	A low power CMOS CORDIC processor design for wireless telecommunication. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	1
78	A CMOS Low Power Fully Digital Adaptive Power Delivery System Based on Finite State Machine Control., 2007,,.		2
79	Fault Tolerant Source Routing for Network-on-chip. , 2007, , .		40
80	Ultra-low voltage high-speed Schmitt trigger circuit in SOI MOSFET technology. IEICE Electronics Express, 2007, 4, 606-611.	0.3	8
81	Optimal Body Biasing for Minimum Leakage Power in Standby Mode. , 2007, , .		11
82	Accurate Macro-modeling for Leakage Current for IDDQ Test. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	3
83	Analysis and Simulation of Jitter for High Speed Channels in VLSI Systems. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	3
84	Low power CMOS electronic central pattern generator design for a biomimetic underwater robot. Neurocomputing, 2007, 71, 284-296.	3. 5	39
85	Statistical Characterization of Partially-Depleted SOI Gates. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
86	Jitter Analysis of PWM Scheme in High Speed Serial Link. , 2006, , .		6
87	Clock Grid Simulation using Transient S-parameter Modeling. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
88	A high-efficiency fully digital synchronous buck converter power delivery system based on a finite-state machine. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2006, 14, 229-240.	2.1	17
89	Environmental-Based Characterization of SoC-Based Instrumentation Systems for Stratified Testing. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1241-1248.	2.4	2
90	Low power CMOS adaptive electronic central pattern generator design. , 2005, , .		1

#	Article	IF	Citations
91	A power optimization method to design Butterworth filter on SiGe process. , 2005, , .		1
92	A novel delay balancing methodology for wave pipelined circuits., 2005,,.		1
93	A CMOS Subbandgap Reference Circuit With 1-V Power Supply Voltage. IEEE Journal of Solid-State Circuits, 2004, 39, 252-255.	3.5	64
94	A deep sub-micron SRAM cell design and analysis methodology. , 0, , .		2
95	A localized self-resetting gate design methodology for low power. , 0, , .		5
96	A novel digital controlled technique for operational amplifier compensation. , 0, , .		3
97	An investigation into adiabatic circuits. , 0, , .		1
98	Design of enhanced differential cascode voltage switch logic (EDCVSL) circuits for high fan-in gate. , 0, , .		11
99	Design flow of robust routed power distribution for low power ASIC. , 0, , .		0
100	A test-vector generation methodology for crosstalk noise faults. , 0, , .		5
101	Implementation of a 1 volt supply voltage CMOS subbandgap reference circuit. , 0 , , .		2
102	A fast and precise interconnect capacitive coupling noise model., 0,,.		0
103	Power Estimation in Digital CMOS VLSI Chips. , 0, , .		1
104	Wave Pipelined Circuits Synthesis., 0,,.		1
105	ASLIC: A Low Power CMOS Analog Circuit Design Automation. , 0, , .		1
106	Data dependent jitter (DDJ) characterization methodology. , 0, , .		5
107	On the modeling and analysis of jitter in ATE using Matlab. , 0, , .		7