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List of Publications by Year in descending order

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76
all docs

76
docs citations

76
times ranked

2633
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Based Three-Dimensional Capacitive Touch Sensor for Wearable Electronics. ACS Nano, 2017, 11, 7950-7957.	7.3	270
2	Low Voltage, Low Power, Inverter-Based Switched-Capacitor Delta-Sigma Modulator. IEEE Journal of Solid-State Circuits, 2009, 44, 458-472.	3.5	265
3	A CMOS Temperature Sensor With a Voltage-Calibrated Inaccuracy of $\pm 0.15\% \text{ (3}\sigma\text{)}$ From -55°C to 125°C . IEEE Journal of Solid-State Circuits, 2013, 48, 292-301.	3.5	198
4	Conformal, graphene-based triboelectric nanogenerator for self-powered wearable electronics. Nano Energy, 2016, 27, 298-305.	8.2	152
5	A 6.3 μW 20 bit Incremental Zoom-ADC with 6 ppm INL and 1 μV Offset. IEEE Journal of Solid-State Circuits, 2013, 48, 3019-3027.	3.5	148
6	A 2.1 M Pixels, 120 Frame/s CMOS Image Sensor With Column-Parallel $\Delta\Sigma$ ADC Architecture. IEEE Journal of Solid-State Circuits, 2011, 46, 236-247.	3.5	144
7	A 1.2-V 8.3-nJ CMOS Humidity Sensor for RFID Applications. IEEE Journal of Solid-State Circuits, 2013, 48, 2469-2477.	3.5	112
8	Transparent, Flexible, Conformal Capacitive Pressure Sensors with Nanoparticles. Small, 2018, 14, 1703432.	5.2	112
9	A 240-frames/s 2.1-Mpixel CMOS Image Sensor With Column-Shared Cyclic ADCs. IEEE Journal of Solid-State Circuits, 2011, 46, 2073-2083.	3.5	101
10	A 20-b $\pm 40\text{-mV}$ Range Read-Out IC With 50-nV Offset and 0.04% Gain Error for Bridge Transducers. IEEE Journal of Solid-State Circuits, 2012, 47, 2152-2163.	3.5	73
11	MoS ₂ /Graphene Photodetector Array with Strain-Modulated Photoresponse up to the Near-Infrared Regime. ACS Nano, 2021, 15, 12836-12846.	7.3	56
12	A Single-Chip CMOS Smoke and Temperature Sensor for an Intelligent Fire Detector. IEEE Sensors Journal, 2009, 9, 914-921.	2.4	45
13	A 6.5- μW 10-kHz BW 80.4-dB SNDR $\Sigma\Delta$ -C-Based CT $\Delta\Sigma$ Modulator With a Feedback-Assisted $\Sigma\Delta$ Linearization for Artifact-Tolerant Neural Recording. IEEE Journal of Solid-State Circuits, 2020, 55, 2889-2901.	3.5	45
14	A 1.8-V 6.9-mW 120-fps 50-Channel Capacitive Touch Readout With Current Conveyor AFE and Current-Driven $\Delta\Sigma$ ADC. IEEE Journal of Solid-State Circuits, 2018, 53, 204-218.	3.5	41
15	Incremental Delta-Sigma ADCs: A Tutorial Review. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 4161-4173.	3.5	40
16	Analysis and Design of Low-Power Continuous-Time Delta-Sigma Modulator Using Negative-R Assisted Integrator. IEEE Journal of Solid-State Circuits, 2019, 54, 277-287.	3.5	37
17	A 300- μW Audio $\Delta\Sigma$ Modulator With 100.5-dB DR Using Dynamic Bias Inverter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 3356-3367.	3.5	34
18	A Compact Resistor-Based CMOS Temperature Sensor With an Inaccuracy of 0.12 $^{\circ}\text{C}$	3.5	33

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19	A 640 \times 640 Fully Dynamic CMOS Image Sensor for Always-On Operation. IEEE Journal of Solid-State Circuits, 2020, 55, 898-907.	3.5	33
20	Bulk Switching Instrumentation Amplifier for a High-Impedance Source in Neural Signal Recording. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 194-198.	2.2	28
21	A Low Power Sigma-Delta Modulator Using Class-C Inverter. , 2007, , .		27
22	A CMOS VEGF Sensor for Cancer Diagnosis Using a Peptide Aptamer-Based Functionalized Microneedle. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1288-1299.	2.7	27
23	Long-term Intracellular Recording of Optogenetically-induced Electrical Activities using Vertical Nanowire Multi Electrode Array. Scientific Reports, 2020, 10, 4279.	1.6	27
24	Wireless graphene-based thermal patch for obtaining temperature distribution and performing thermography. Science Advances, 2022, 8, eabm6693.	4.7	27
25	A Dual-Capture Wide Dynamic Range CMOS Image Sensor Using Floating-Diffusion Capacitor. IEEE Transactions on Electron Devices, 2008, 55, 2590-2594.	1.6	23
26	Patterned Nanowire Electrode Array for Direct Extraction of Photosynthetic Electrons from Multiple Living Algal Cells. Advanced Functional Materials, 2016, 26, 7679-7689.	7.8	23
27	The Effect of a Deep Virtual Guard Ring on the Device Characteristics of Silicon Single Photon Avalanche Diodes. IEEE Transactions on Electron Devices, 2019, 66, 2986-2991.	1.6	23
28	Enhanced Neurite Outgrowth by Intracellular Stimulation. Nano Letters, 2015, 15, 5414-5419.	4.5	19
29	Ultrafast single-droplet bouncing actuator with electrostatic force on superhydrophobic electrodes. RSC Advances, 2016, 6, 66729-66737.	1.7	19
30	A 5800- μm^2 Resistor-Based Temperature Sensor With a One-Point Trimmed Inaccuracy of $\pm 1.2^\circ\text{C}$ (3σ) From -50°C to 105°C in 65-nm CMOS. IEEE Solid-State Circuits Letters, 2019, 2, 67-70.	1.3	18
31	A 51-pj/Pixel 33.7-dB PSNR 4 \times — Compressive CMOS Image Sensor With Column-Parallel Single-Shot Compressive Sensing. IEEE Journal of Solid-State Circuits, 2021, 56, 2503-2515.	3.5	18
32	Prolonged and highly efficient intracellular extraction of photosynthetic electrons from single algal cells by optimized nanoelectrode insertion. Nano Research, 2018, 11, 397-409.	5.8	17
33	A 2MHz BW Buffer-Embedded Noise-Shaping SAR ADC Achieving 73.8dB SNDR and 87.3dB SFDR. , 2019, , .		16
34	A 134- \times W 99.4-dB SNDR Audio Continuous-Time Delta-Sigma Modulator With Chopped Negative-R and Tri-Level FIR-DAC. IEEE Journal of Solid-State Circuits, 2021, 56, 1761-1771.	3.5	16
35	A Parasitic Insensitive Catheter-Based Capacitive Force Sensor for Cardiovascular Diagnosis. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 812-823.	2.7	15
36	A 5.2-Mpixel 88.4-dB DR 12-in CMOS X-Ray Detector With 16-bit Column-Parallel Continuous-Time Incremental $\Sigma\Delta$ ADCs. IEEE Journal of Solid-State Circuits, 2020, 55, 2878-2888.	3.5	11

#	ARTICLE	IF	CITATIONS
37	A 0.9-V 28-MHz Highly Digital CMOS Dual-RC Frequency Reference With ± 200 ppm Inaccuracy From ~ 40 $^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$. IEEE Journal of Solid-State Circuits, 2022, 57, 2418-2428.	3.5	11
38	A 2 mW, 50 dB DR, 10 MHz BW $\Delta\Sigma$ Interleaved Bandpass Delta-Sigma Modulator at 50 MHz IF. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 80-89.	3.5	10
39	A 64 \times 64 APD-Based ToF Image Sensor with Background Light Suppression up to 200 klx Using In-Pixel Auto-Zeroing and Chopping. , 2019, , .		10
40	A 348- μW 68.8-dB SNDR 20-MS/s Pipelined SAR ADC With a Closed-Loop Two-Stage Dynamic Amplifier. IEEE Solid-State Circuits Letters, 2021, 4, 166-169.	1.3	10
41	CMOS Image Sensor with Analog Gamma Correction using Nonlinear Single-Slope ADC. , 0, , .		9
42	A Two-Step A/D Conversion and Column Self-Calibration Technique for Low Noise CMOS Image Sensors. Sensors, 2014, 14, 11825-11843.	2.1	9
43	Electrostatically-induced trajectory switching system on a multi-inlet-multi-outlet superhydrophobic droplet guiding track. RSC Advances, 2015, 5, 5754-5761.	1.7	9
44	Real-Time Detection of Markers in Blood. Nano Letters, 2019, 19, 2291-2298.	4.5	9
45	Plasmon-stimulated biophotovoltaic cells based on thylakoid AuNR conjugates. Journal of Materials Chemistry A, 2020, 8, 24192-24203.	5.2	9
46	Sensitivity Controllable CMOS Image Sensor Pixel Using Control Gate Overlaid on Photodiode. IEEE Electron Device Letters, 2007, 28, 495-498.	2.2	8
47	A Current Regulator for Inverter-Based Massively Column-Parallel $\Delta\Sigma$ ADCs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 224-228.	2.2	8
48	A 64 \times 64 SPAD-Based Indirect Time-of-Flight Image Sensor With 2-Tap Analog Pulse Counters. IEEE Journal of Solid-State Circuits, 2021, 56, 2956-2967.	3.5	7
49	A 0.6-V 86.5-dB DR 40-kHz BW Inverter-Based Continuous-Time $\Delta\Sigma$ Modulator With PVT-Robust Body-Biasing. IEEE Solid-State Circuits Letters, 2021, 4, 178-181.	1.3	7
50	A 0.8- μW switched-capacitor sigma-delta modulator using a class-C inverter. , 0, , .		4
51	Smart CMOS Image Sensor With High SBR and Subpixel Resolution for Light-Section-Based Range Finding. IEEE Transactions on Electron Devices, 2009, 56, 2546-2555.	1.6	4
52	A 20bit continuous-time $\Delta\Sigma$ modulator with a Gm-C integrator, 120dB CMRR and 15 ppm INL. , 2012, , .		4
53	A 5800- μm^2 Resistor-Based Temperature Sensor With a One-Point Trimmed Inaccuracy of ± 1.2 $^{\circ}\text{C}$ (3σ) From ~ 50 $^{\circ}\text{C}$ to 105 $^{\circ}\text{C}$ in 65-nm CMOS. , 2019, , .		4
54	A 0.033-mm ² 21.5-aF to 114.9-aF Resolution Continuous-Time $\Delta\Sigma$ Capacitance-to-Digital Converter Achieving Parasitic Capacitance Immunity Up to 480 pF. IEEE Journal of Solid-State Circuits, 2022, 57, 3048-3057.	3.5	4

#	ARTICLE	IF	CITATIONS
55	A 0.02mm ² embedded temperature sensor with 2% C inaccuracy for self-refresh control in 25nm mobile DRAM. , 2015, , .		3
56	Energy-Efficient Inverter-Based Amplifiers. , 2019, , 297-314.		3
57	A 185 $\frac{1}{4}$ W $\hat{\sim}$ 105.1 dB THD 88.6 dB SNDR Negative-R Stabilized Audio Preamplifier. , 2019, , .		3
58	A 40-m Range 90-frames/s CMOS Time-of-Flight Sensor Using SPAD and In-Pixel Time-Gated Pulse Counter. IEEE Solid-State Circuits Letters, 2020, 3, 422-425.	1.3	3
59	9.2 a 134 $\hat{\mu}$ W 24kHz-bw 103.5db-dr ct $\hat{\sim}$ $\hat{\sim}$ modulator with chopped negative-r and tri-level fir dac. , 2020, , .		3
60	A Negative R-Assisted Amplifier on the Virtual Ground and Its Applications. , 2021, , .		3
61	A 2.1 mW 2 MHz-BW 73.8 dB-SNDR Buffer-Embedded Noise-Shaping SAR ADC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 5029-5037.	3.5	3
62	28.3 A 5.2Mpixel 88.4dB-DR 12in CMOS X-Ray Detector with 16b Column-Parallel Continuous-Time $\hat{\sim}$ $\hat{\sim}$ ADCs. , 2020, , .		3
63	Structure variation effects on device reliability of single photon avalanche diodes. Microelectronics Reliability, 2017, 76-77, 610-613.	0.9	2
64	An Always-on 4 $\hat{\sim}$ Compressive VGA CMOS Imager with 51pJ/Pixel and $\hat{\sim}$ 32dB PSNR. , 2020, , .		2
65	An analog front-end of a fire detection SoC for a fire alarm system. , 2008, , .		1
66	Column-Parallel Single Slope ADC with Digital Correlated Multiple Sampling for Low Noise CMOS Image Sensors. Procedia Engineering, 2011, 25, 1265-1268.	1.2	1
67	Harmonic Based Diagnostics for Aging Lithium-Ion Battery. , 2019, , .		1
68	A 0.033-mm ² 21.5-aF Resolution Continuous-Time Delta-Sigma Capacitance-to-Digital Converter with Parasitic Capacitance Immunity up to 480pF. , 2021, , .		1
69	A 1.5V mixed signal biomedical SOC for implantable cardioverter defibrillators. , 2007, , .		0
70	A Low Power Dual-Mode Sigma-Delta Modulator for GSM/WCDMA Receivers. , 2007, , .		0
71	Wide dynamic range CMOS active pixel sensor with sensitivity control gate. , 2009, , .		0
72	A 1.35 m Long 0.18 gf Resolution Differential Capacitive Force Sensor for Contact Force Monitoring. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	A 300-pW audio $\hat{\mu}$ modulator with 100.5-dB DR using dynamic bias inverter. , 2018, , .		0
74	Introduction to the Special Issue on the 2019 IEEE International Solid-State Circuits Conference (ISSCC). IEEE Journal of Solid-State Circuits, 2019, 54, 3243-3246.	3.5	0