

Seong-Kwan Hong

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Driving Method of Pixel Circuit Using a-IGZO TFT for Suppression of Threshold Voltage Shift in AMOLED Displays. IEEE Electron Device Letters, 2017, 38, 760-762.	3.9	46
2	An Active Matrix Micro-Pixelated LED Display Driver for High Luminance Uniformity Using Resistance Mismatch Compensation Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 724-728.	3.0	44
3	An Area-Efficient and Low-Power 12-b SAR/Single-Slope ADC Without Calibration Method for CMOS Image Sensors. IEEE Transactions on Electron Devices, 2016, 63, 3599-3604.	3.0	41
4	Capacitive Touch Systems With Styli for Touch Sensors: A Review. IEEE Sensors Journal, 2018, 18, 4832-4846.	4.7	40
5	A Low-Power CMOS Image Sensor With Area-Efficient 14-bit Two-Step SA ADCs Using Pseudomultiple Sampling Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 451-455.	3.0	28
6	A 3.9-kHz Frame Rate and 61.0-dB SNR Analog Front-End IC With 6-bit Pressure and Tilt Angle Expressions of Active Stylus Using Multiple-Frequency Driving Method for Capacitive Touch Screen Panels. IEEE Journal of Solid-State Circuits, 2018, 53, 187-203.	5.4	22
7	An AMOLED Pixel Circuit With a Compensating Scheme for Variations in Subthreshold Slope and Threshold Voltage of Driving TFTs. IEEE Journal of Solid-State Circuits, 2020, 55, 3087-3096.	5.4	21
8	A Highly Noise-Immune Capacitive Touch Sensing System Using an Adaptive Chopper Stabilization Method. IEEE Sensors Journal, 2017, 17, 803-811.	4.7	18
9	A Highly Accurate Current LED Lamp Driver With Removal of Low-Frequency Flicker Using Average Current Control Method. IEEE Transactions on Power Electronics, 2018, 33, 8741-8753.	7.9	18
10	Lifetime Extension Method for Active Matrix Organic Light-Emitting Diode Displays Using a Modified Stretched Exponential Decay Model. IEEE Electron Device Letters, 2015, 36, 277-279.	3.9	17
11	A highly linear and accurate touch data extraction algorithm based on polar coordinates for large-sized capacitive touch screen panels. IEEE Transactions on Consumer Electronics, 2016, 62, 341-348.	3.6	17
12	A Low-Noise and Area-Efficient PWM- $\Delta\Sigma$ ADC Using a Single-Slope Quantizer for CMOS Image Sensors. IEEE Transactions on Electron Devices, 2016, 63, 168-173.	3.0	17
13	A 4410-ppi Resolution Pixel Circuit for High Luminance Uniformity of OLEDs Microdisplays. IEEE Journal of the Electron Devices Society, 2019, 7, 1026-1032.	2.1	17
14	An Area-Efficient High-Resolution Resistor-String DAC with Reverse Ordering Scheme for Active Matrix Flat-Panel Display Data Driver ICs. Journal of Display Technology, 2016, 12, 828-834.	1.2	15
15	A Fast Switching Current Regulator Using Slewing Time Reduction Method for High Dimming Ratio of LED Backlight Drivers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 1014-1018.	3.0	14
16	A Fast and Compact Charger for an Li-Ion Battery Using Successive Built-In Resistance Detection. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 161-165.	3.0	14
17	A Fast and Highly Accurate Battery Charger With Accurate Built-In Resistance Detection. IEEE Transactions on Power Electronics, 2018, 33, 10051-10054.	7.9	14
18	A Pixel Structure Using Block Emission Driving Method for High Image Quality in Active Matrix Organic Light-Emitting Diode Displays. Journal of Display Technology, 2016, 12, 1250-1256.	1.2	13

#	ARTICLE	IF	CITATIONS
19	A Highly Power-Efficient Single-Inductor Bipolar-Output DC-DC Converter Using Hysteretic Skipping Control for OLED-on-Silicon Microdisplays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 2017-2021.	3.0	12
20	Area-efficient high-voltage switch using floating control circuit for 3D ultrasound imaging systems. Electronics Letters, 2014, 50, 1900-1902.	1.0	10
21	An AMOLED Panel Test System Using Universal Data Driver ICs for Various Pixel Structures. IEEE Transactions on Electron Devices, 2017, 64, 189-194.	3.0	10
22	CMOS Flat-Panel X-ray Detector With Dual-Gain Active Pixel Sensors and Column-Parallel Readout Circuits. IEEE Transactions on Nuclear Science, 2014, 61, 2472-2479.	2.0	9
23	A Fast Multiple Sampling Method for Low-Noise CMOS Image Sensors With Column-Parallel 12-bit SAR ADCs. Sensors, 2016, 16, 27.	3.8	9
24	An AMOLED pixel circuit for high image quality of 1000ppi mobile displays in AR and VR applications. Journal of the Society for Information Display, 2018, 26, 71-78.	2.1	9
25	A Compensation Method for Variations in Subthreshold Slope and Threshold Voltage of Thin-Film Transistors for AMOLED Displays. IEEE Journal of the Electron Devices Society, 2019, 7, 462-469.	2.1	9
26	A Fast Transient Response Hybrid LDO With Highly Accurate DC Voltage Using Countable Bidirectional Binary Search and Soft Swap Switching. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3272-3276.	3.0	9
27	A High-Speed Wafer-Scale CMOS X-Ray Detector With Column-Parallel ADCs Using Oversampling Binning Method. IEEE Transactions on Electron Devices, 2015, 62, 888-895.	3.0	8
28	In-cell capacitive touch panel structures and their readout circuits. , 2016, , .		8
29	A Tileable CMOS X-Ray Line Detector Using Time-Delay-Integration With Pseudomultisampling for Large-Sized Dental X-Ray Imaging Systems. IEEE Transactions on Electron Devices, 2017, 64, 211-216.	3.0	8
30	An Ultra-Low-Power 16-Bit Second-Order Incremental ADC With SAR-Based Integrator for IoT Sensor Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1899-1903.	3.0	8
31	A Low-Power 12-Bit Extended Counting ADC Without Calibration for CMOS Image Sensors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 824-828.	3.0	8
32	23: Distinguished Student Paper: An AMOLED Pixel Circuit for 1000 ppi and 5.87-inch Mobile Displays with AR and VR Applications. Digest of Technical Papers SID International Symposium, 2018, 49, 283-286.	0.3	8
33	A High Peak Output Power and High Power Conversion Efficiency SIMIMO Converter Using Optimal on-Time Control and Hybrid Zero Current Switching for Energy Harvesting Systems in IoT Applications. IEEE Transactions on Power Electronics, 2020, 35, 8261-8275.	7.9	8
34	13.5L: Late-News Paper: A Simple Pixel Circuit for Ultra High Resolution Active Matrix OLED-on-Silicon (OLEDoS) Microdisplays with Highly Uniform Luminance. Digest of Technical Papers SID International Symposium, 2015, 46, 164-167.	0.3	7
35	A Low-Power Two-Tap Voltage-Mode Transmitter With Precisely Matched Output Impedance Using an Embedded Calibration Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 573-577.	3.0	7
36	A Small-Area and Energy-Efficient 12-bit SA-ADC With Residue Sampling and Digital Calibration for CMOS Image Sensors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 932-936.	3.0	6

#	ARTICLE	IF	CITATIONS
37	A small area 10-bit linear gamma DAC with voltage adder for large-sized active matrix flat panel displays. , 2014, , .		5
38	5ÅGbit/s 2â€tap lowâ€swing voltageâ€mode transmitter with least segmented voltageâ€mode equalisation. Electronics Letters, 2014, 50, 1371-1373.	1.0	5
39	A Highly Linear and Accurate Fork-Shaped Electrode Pattern for Large-Sized Capacitive Touch Screen Panels. IEEE Sensors Journal, 2018, 18, 6345-6351.	4.7	5
40	A Highly Linear 10-Bit DAC of Data Driver IC Using Source Degeneration Load for Active Matrix Flat-Panel Displays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2312-2316.	3.0	5
41	A Temperature Compensation Method by Adjusting Gamma Voltages for High Luminance Uniformity of Active Matrix Organic Light-Emitting Diode Displays. IEEE Journal of the Electron Devices Society, 2020, 8, 1-8.	2.1	4
42	A Readout IC Using Two-Step Fastest Signal Identification for Compact Data Acquisition of PET Systems. Sensors, 2016, 16, 1748.	3.8	3
43	A low-power 10-bit single-slope ADC using power gating and multi-clocks for CMOS image sensors. , 2016, , .		3
44	A smallâ€area and lowâ€power data driver IC using twoâ€stage DAC with a capacitor array for active matrix flatâ€panel displays. Journal of the Society for Information Display, 2017, 25, 4-11.	2.1	3
45	A Low-Power Analog Delay Line Using a Current-Splitting Method for 3-D Ultrasound Imaging Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 829-833.	3.0	3
46	A spread spectrum clock generator with controllable frequency modulation profile. , 2013, , .		2
47	7.2: A Pixel Structure Using Switching Error Reduction Method for High Image Quality AMOLED Displays. Digest of Technical Papers SID International Symposium, 2015, 46, 57-60.	0.3	2
48	A low-power single-ended 11-bit SA-ADC with 1 V supply voltage and 2 V input voltage range for CMOS image sensors. , 2016, , .		2
49	An EMG readout front-end with automatic gain controller for human-computer interface. , 2013, , .		1
50	A low-power second-order double-sampling delta-sigma modulator for audio applications. , 2014, , .		1
51	Highâ€speed twoâ€step singleâ€slope ADC using multiâ€sampling with partial conversion. Electronics Letters, 2015, 51, 325-327.	1.0	1
52	A fully integrated switched-capacitor DCâ€DC converter with hybrid output regulation. Analog Integrated Circuits and Signal Processing, 2018, 94, 117-126.	1.4	1
53	A Highly Reliable SIMO Converter Using Hybrid Starter and Overcharging Protector for Energy Harvesting Systems. IEEE Access, 2020, 8, 162172-162179.	4.2	1
54	A High Frame Rate Analog Front-End IC With Piezoelectric Micromachined Ultrasound Transducers Using Analog Multi-Line Acquisition for Ultrasound Imaging Systems. IEEE Access, 2021, 9, 119298-119309.	4.2	1

#	ARTICLE	IF	CITATIONS
55	A High-Speed and Energy-Efficient Multi-Bit Cyclic ADC Using Single-Slope Quantizer for CMOS Image Sensors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2322-2326.	3.0	1
56	Low-power area-efficient high-voltage linear amplifier for driving integrated 2-D ultrasound transducer array. , 2013, , .		0
57	A fast transient LED driver with adaptive frequency control according to load variation for large-sized LCD backlights. Journal of the Society for Information Display, 2017, 25, 712-724.	2.1	0