

Seong-Kwan Hong

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | A Highly Reliable SIMO Converter Using Hybrid Starter and Overcharging Protector for Energy Harvesting Systems. IEEE Access, 2020, 8, 162172-162179. | 4.2 | 1 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | A 4410-ppi Resolution Pixel Circuit for High Luminance Uniformity of OLED _o S Microdisplays. IEEE Journal of the Electron Devices Society, 2019, 7, 1026-1032. | 2.1 | 17 |
| 10 | 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 |
| 11 | A fully integrated switched-capacitor DC-DC converter with hybrid output regulation. Analog Integrated Circuits and Signal Processing, 2018, 94, 117-126. | 1.4 | 1 |
| 12 | 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 |
| 13 | An AMOLED pixel circuit for high image quality of 1000-ppi mobile displays in AR and VR applications. Journal of the Society for Information Display, 2018, 26, 71-78. | 2.1 | 9 |
| 14 | 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 |
| 15 | Capacitive Touch Systems With Styli for Touch Sensors: A Review. IEEE Sensors Journal, 2018, 18, 4832-4846. | 4.7 | 40 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 23€1: <i>Distinguished Student Paper:</i> 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | A small€area and low€power data driver IC using two€stage DAC with a capacitor array for active matrix flat€panel displays. Journal of the Society for Information Display, 2017, 25, 4-11. | 2.1 | 3 |
| 28 | 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 |
| 29 | A Highly Noise-Immune Capacitive Touch Sensing System Using an Adaptive Chopper Stabilization Method. IEEE Sensors Journal, 2017, 17, 803-811. | 4.7 | 18 |
| 30 | 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 |
| 31 | 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 |
| 32 | A Readout IC Using Two-Step Fastest Signal Identification for Compact Data Acquisition of PET Systems. Sensors, 2016, 16, 1748. | 3.8 | 3 |
| 33 | A low-power 10-bit single-slope ADC using power gating and multi-clocks for CMOS image sensors. , 2016, , . | | 3 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | In-cell capacitive touch panel structures and their readout circuits. , 2016, , . | | 8 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | High-speed two-step single-slope ADC using multi-sampling with partial conversion. Electronics Letters, 2015, 51, 325-327. | 1.0 | 1 |
| 49 | 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 |
| 50 | 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 |
| 51 | A small area 10-bit linear gamma DAC with voltage adder for large-sized active matrix flat panel displays. , 2014, , . | | 5 |
| 52 | 5 Gbit/s 2-tap low-swing voltage-mode transmitter with least segmented voltage-mode equalisation. Electronics Letters, 2014, 50, 1371-1373. | 1.0 | 5 |
| 53 | Area-efficient high-voltage switch using floating control circuit for 3D ultrasound imaging systems. Electronics Letters, 2014, 50, 1900-1902. | 1.0 | 10 |
| 54 | A low-power second-order double-sampling delta-sigma modulator for audio applications. , 2014, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 55 | An EMG readout front-end with automatic gain controller for human-computer interface. , 2013, , . | | 1 |
| 56 | A spread spectrum clock generator with controllable frequency modulation profile. , 2013, , . | | 2 |
| 57 | Low-power area-efficient high-voltage linear amplifier for driving integrated 2-D ultrasound transducer array. , 2013, , . | | 0 |