

Oh-Kyong Kwon

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,235
citations

471371

17
h-index

434063

31
g-index

82
all docs

82
docs citations

82
times ranked

1083
citing authors

#	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.	2.6	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.	2.2	1
3	A Driving and Compensation Method for AMOLED Displays Using Adaptive Reference Generator for High Luminance Uniformity. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1725-1729.	2.2	7
4	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.	1.2	4
5	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.	5.4	8
6	A Highly Reliable SIMO Converter Using Hybrid Starter and Overcharging Protector for Energy Harvesting Systems. IEEE Access, 2020, 8, 162172-162179.	2.6	1
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.	3.5	21
8	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.	2.2	9
9	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.	2.2	5
10	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.	1.2	17
11	Highly Sensitive Active-Matrix Driven Self-Capacitive Fingerprint Sensor based on Oxide Thin Film Transistor. Scientific Reports, 2019, 9, 3216.	1.6	19
12	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.	1.2	9
13	A fully integrated switched-capacitor DC-DC converter with hybrid output regulation. Analog Integrated Circuits and Signal Processing, 2018, 94, 117-126.	0.9	1
14	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.	2.2	8
15	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.	0.8	9
16	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.	2.2	44
17	Capacitive Touch Systems With Styli for Touch Sensors: A Review. IEEE Sensors Journal, 2018, 18, 4832-4846.	2.4	40
18	Effects of Stacked Mo/Ti/Cu Source and Drain Electrodes on the Performance of Amorphous InGaZn-O Thin-Film Transistors. IEEE Electron Device Letters, 2018, 39, 43-46.	2.2	9

#	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.	2.2	12
20	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.	5.4	18
21	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.	2.2	8
22	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.	2.2	3
23	A highly accurate solenoid valve driver with current sensing circuits for brake systems. IEICE Electronics Express, 2018, 15, 20171029-20171029.	0.3	4
24	A Highly Linear and Accurate Fork-Shaped Electrode Pattern for Large-Sized Capacitive Touch Screen Panels. IEEE Sensors Journal, 2018, 18, 6345-6351.	2.4	5
25	23-1: 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.	0.1	8
26	An optimal design method for minimization of common voltage distortion in large-sized and high-resolution liquid crystal displays. Journal of the Society for Information Display, 2018, 26, 447-455.	0.8	0
27	A Fast and Highly Accurate Battery Charger With Accurate Built-In Resistance Detection. IEEE Transactions on Power Electronics, 2018, 33, 10051-10054.	5.4	14
28	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.	2.2	14
29	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.	2.2	46
30	An AMOLED Panel Test System Using Universal Data Driver ICs for Various Pixel Structures. IEEE Transactions on Electron Devices, 2017, 64, 189-194.	1.6	10
31	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.	0.8	3
32	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.	1.6	8
33	A Small-Area and Low-Power Scan Driver Using a Coplanar a-IGZO Thin-Film Transistor With a Dual-Gate for Liquid Crystal Displays. IEEE Electron Device Letters, 2017, 38, 195-198.	2.2	16
34	A design method for flicker-free liquid crystal display panels based on indium-gallium-zinc-oxide thin-film transistors. Journal of the Society for Information Display, 2017, 25, 544-553.	0.8	3
35	A high-efficient and fast-transient buck-boost converter using adaptive direct path skipping and on-duty modulation. Microelectronics Journal, 2017, 70, 43-51.	1.1	4
36	A low load- and cross-regulation SIDO converter using an adaptive current sensor and LDO regulator with a selectable charge pump for mobile devices. Analog Integrated Circuits and Signal Processing, 2017, 92, 293-301.	0.9	3

#	ARTICLE	IF	CITATIONS
37	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.	0.8	0
38	A Fast Multiple Sampling Method for Low-Noise CMOS Image Sensors With Column-Parallel 12-bit SAR ADCs. Sensors, 2016, 16, 27.	2.1	9
39	A Readout IC Using Two-Step Fastest Signal Identification for Compact Data Acquisition of PET Systems. Sensors, 2016, 16, 1748.	2.1	3
40	A New Dot Inversion Data Addressing Technique Using Double Rate Driving Method for High Image Quality and Low-Power TFT-LCDs. Journal of Display Technology, 2016, 12, 1019-1026.	1.3	2
41	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.	2.2	14
42	A 2822-ppi Resolution Pixel Circuit With High Luminance Uniformity for OLED Microdisplays. Journal of Display Technology, 2016, 12, 1083-1088.	1.3	28
43	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.	1.6	41
44	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.	1.3	13
45	Simple pixel circuits for high resolution and high image quality organic light emitting diode-on-silicon microdisplays with wide data voltage range. Journal of the Society for Information Display, 2016, 24, 110-116.	0.8	10
46	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.	1.6	17
47	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.	2.2	7
48	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.	1.3	15
49	Small-area DAC using adaptive body bias scheme for AMOLED data driver ICs. Electronics Letters, 2015, 51, 1322-1324.	0.5	1
50	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.	0.1	7
51	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.	0.1	2
52	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.	2.2	17
53	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.	2.2	28
54	A Pixel Structure and a Simultaneous Driving Method for High Transmittance of Transparent Digital Information Displays. Journal of Display Technology, 2015, 11, 65-72.	1.3	2

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55	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.	1.6	8
56	High-speed two-step single-slope ADC using multi-sampling with partial conversion. Electronics Letters, 2015, 51, 325-327.	0.5	1
57	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.	1.2	9
58	A small area 10-bit linear gamma DAC with voltage adder for large-sized active matrix flat panel displays. , 2014, , .		5
59	5ÂGbit/s 2-â€tap low-swing voltage-mode transmitter with least segmented voltage-mode equalisation. Electronics Letters, 2014, 50, 1371-1373.	0.5	5
60	Area-efficient high-voltage switch using floating control circuit for 3D ultrasound imaging systems. Electronics Letters, 2014, 50, 1900-1902.	0.5	10
61	A 2D-3D Switchable Driving Method for Reducing Power Consumption of Thin-Film Transistor Liquid Crystal Display TV With Film-Type Patterned Retarder. Journal of Display Technology, 2014, 10, 299-307.	1.3	3
62	Hybrid driving method for outdoor public information displays. Journal of Information Display, 2014, 15, 169-175.	2.1	1
63	Three-Side Buttable Integrated Ultrasound Chip With a 16\$,imes,\$16 Reconfigurable Transceiver and Capacitive Micromachined Ultrasonic Transducer Array for 3-D Ultrasound Imaging Systems. IEEE Transactions on Electron Devices, 2013, 60, 3562-3569.	1.6	15
64	CMOS X-Ray Detector With Column-Parallel 14.3-bit Extended-Counting ADCs. IEEE Transactions on Electron Devices, 2013, 60, 1169-1177.	1.6	64
65	A color local dimming algorithm for liquid crystals displays using color light emitting diode backlight systems. Optics and Laser Technology, 2013, 47, 80-87.	2.2	19
66	Pixel structures using the negative feedback method for high-resolution active matrix organic light-emitting diode displays. Journal of the Society for Information Display, 2013, 21, 505-510.	0.8	2
67	35.1: High Resolution AMOLED Pixel Using Negative Feedback Structure for Improving Image Quality. Digest of Technical Papers SID International Symposium, 2013, 44, 461-464.	0.1	6
68	Highly power-efficient and reliable light-emitting diode backlight driver IC for the uniform current driving of medium-sized liquid crystal displays. Journal of Information Display, 2012, 13, 73-82.	2.1	1
69	A Low-Power Single-Clock-Driven Scan Driver Using Depletion-Mode a-IGZO TFTs. IEEE Electron Device Letters, 2012, 33, 402-404.	2.2	27
70	Organic Light-Emitting Diode-on-Silicon Pixel Circuit Using the Source Follower Structure with Active Load for Microdisplays. Japanese Journal of Applied Physics, 2011, 50, 03CC05.	0.8	11
71	A single-clock-driven gate driver using p-type, low-temperature polycrystalline silicon thin-film transistors. Journal of Information Display, 2011, 12, 61-67.	2.1	10
72	An Advanced External Compensation System for Active Matrix Organic Light-Emitting Diode Displays With Poly-Si Thin-Film Transistor Backplane. IEEE Transactions on Electron Devices, 2010, 57, 3012-3019.	1.6	43

#	ARTICLE	IF	CITATIONS
73	A double-loop control LED backlight driver IC for medium-sized LCDs. , 2010, , .		30
74	A highly area-efficient controller for capacitive touch screen panel systems. IEEE Transactions on Consumer Electronics, 2010, 56, 1115-1122.	3.0	85
75	A luminance adjusting algorithm for high resolution and high image quality AMOLED displays of mobile phone applications. IEEE Transactions on Consumer Electronics, 2010, 56, 1191-1195.	3.0	17
76	External Compensation of Nonuniform Electrical Characteristics of Thin-Film Transistors and Degradation of OLED Devices in AMOLED Displays. IEEE Electron Device Letters, 2009, 30, 377-379.	2.2	101
77	A backlight dimming algorithm for low power and high image quality LCD applications. IEEE Transactions on Consumer Electronics, 2009, 55, 839-844.	3.0	95
78	A real time video data adjusting method for active matrix organic light emitting diode displays with high image quality. IEEE Transactions on Consumer Electronics, 2009, 55, 2372-2376.	3.0	10
79	10-bit Driver IC Using 3-bit DAC Embedded Operational Amplifier for Spatial Optical Modulators (SOMs). IEEE Journal of Solid-State Circuits, 2007, 42, 2913-2922.	3.5	37
80	10-bit source driver with resistor-resistor-string digital-to-analog converter. Journal of the Society for Information Display, 2006, 14, 371.	0.8	10
81	A lateral SOI BMFET with high current gain. , 0, , .		0
82	Characterization of crosstalk-induced noise for 0.18 μ m CMOS technology with 6-level metallization using time domain reflectometry and S-parameters. , 0, , .		2