

# Po-Cheng Lai

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Compensation Pixel Circuit to Improve Image Quality for Mobile AMOLED Displays. IEEE Journal of Solid-State Circuits, 2019, 54, 489-500.	5.4	50
2	Gate Driver Based on a-Si:H Thin-Film Transistors With Two-Step-Bootstrapping Structure for High-Resolution and High-Frame-Rate Displays. IEEE Transactions on Electron Devices, 2017, 64, 3494-3497.	3.0	26
3	Highly Reliable Bidirectional a-InGaZnO Thin-Film Transistor Gate Driver Circuit for High-Resolution Displays. IEEE Transactions on Electron Devices, 2016, 63, 2405-2411.	3.0	24
4	Pixel Circuit With Parallel Driving Scheme for Compensating Luminance Variation Based on a-IGZO TFT for AMOLED Displays. Journal of Display Technology, 2016, 12, 1681-1687.	1.2	22
5	Bidirectional Gate Driver Circuit Using Recharging and Time-Division Driving Scheme for In-Cell Touch LCDs. IEEE Transactions on Industrial Electronics, 2018, 65, 3585-3591.	7.9	17
6	Pixel Circuit With Leakage Prevention Scheme for Low-Frame-Rate AMOLED Displays. IEEE Journal of the Electron Devices Society, 2020, 8, 235-240.	2.1	17
7	Optical Pixel Sensor of Hydrogenated Amorphous Silicon Thin-Film Transistor Free of Variations in Ambient Illumination. IEEE Journal of Solid-State Circuits, 2016, 51, 2777-2785.	5.4	15
8	Highly Reliable a-Si:H TFT Gate Driver With Precharging Structure for In-Cell Touch AMLCD Applications. IEEE Transactions on Electron Devices, 2019, 66, 1789-1796.	3.0	11
9	Leakage-Prevention Mechanism to Maintain Driving Capability of Compensation Pixel Circuit for Low Frame Rate AMOLED Displays. IEEE Transactions on Electron Devices, 2021, 68, 2313-2319.	3.0	10
10	New 2-D/3-D Switchable Pixel Circuit to Achieve Uniform OLED Luminance for High-Speed AMOLED Displays. IEEE Journal of the Electron Devices Society, 2016, 4, 436-440.	2.1	9
11	Amorphous IGZO TFT-Based Pixel Buffer to Suppress Blue-Phase Liquid Crystal High-Frequency Effect. IEEE Electron Device Letters, 2017, 38, 1673-1675.	3.9	4
12	P-45: Simple Low-Noise Gate Driver Circuit for Slim-Border and High-Resolution Applications. Digest of Technical Papers SID International Symposium, 2015, 46, 1304-1307.	0.3	2
13	Design of Pixel Circuits for Blue-Phase Liquid Crystal Displays. Journal of Display Technology, 2015, , 1-1.	1.2	1
14	Novel Pixel Circuit Using Coupling Method to Achieve High Driving Voltage for Blue-Phase LCDs. IEEE Transactions on Electron Devices, 2017, 64, 4768-4771.	3.0	1
15	Simplified Compensation Pixel Circuit Based on LTPS TFTs for High-Quality images of High-Resolution AMOLED Displays. , 2019, , .		1
16	P-31: New Pixel Circuit Using Constant Charging Current to Achieve High Driving Voltage for Blue-Phase LCDs. Digest of Technical Papers SID International Symposium, 2017, 48, 1343-1345.	0.3	0
17	P-17: Novel Pixel Circuit with Inverter Structure Based on a-IGZO TFT for Blue-Phase Liquid Crystal Displays. Digest of Technical Papers SID International Symposium, 2018, 49, 1242-1245.	0.3	0