

# Kris Myny

## List of Publications by Year in descending order

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132  
papers

4,295  
citations

117571

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123376

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136  
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136  
docs citations

136  
times ranked

3919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive-Feedback-Based Design Technique for Inherently Stable Active Load Toward High-Gain Amplifiers With Unipolar a-IGZO TFT Devices. IEEE Solid-State Circuits Letters, 2022, 5, 37-40.	1.3	3
2	External compensation for high-resolution active matrix organic light-emitting diode displays. Journal of the Society for Information Display, 2021, 29, 511-525.	0.8	5
3	A Low Power Dynamic Circuit Topology towards a-IGZO Thin-Film Ultrasonic Transducer Driving Circuit. , 2021, , .		3
4	Two-Stage Resistor-Load Logic for Digital Applications on Flexible Substrates. , 2021, , .		0
5	A study on lower saturation voltage of dual-gate thin-film a-IGZO MOS transistors. , 2021, , .		1
6	45.3: Invited Paper: Going Towards High-resolution, Uniform AMOLED Displays with a High Brightness Range. Digest of Technical Papers SID International Symposium, 2021, 52, 549-552.	0.1	0
7	Dual-Input Pseudo-CMOS Logic for Digital Applications on Flexible Substrates. , 2021, , .		3
8	A 36V Ultrasonic Driver for Haptic Feedback Using Advanced Charge Recycling Achieving $0.20\text{CV}^2$ Power Consumption. , 2021, , .		0
9	2cm diameter Antenna & Sharp Multi-threshold Detection Thin-film RFID Tags on Flexible substrate. , 2021, , .		2
10	A 36V Ultrasonic Driver for Haptic Feedback Using Advanced Charge Recycling Achieving $0.20\text{CV}^2$ Power Consumption. , 2021, , .		1
11	78: IGZO-based Identification Tags Communicating with Everyday Touchscreens. Digest of Technical Papers SID International Symposium, 2020, 51, 1167-1170.	0.1	2
12	A flexible ECG patch compatible with NFC RF communication. Npj Flexible Electronics, 2020, 4, .	5.1	62
13	AMOLED Displays with In-Pixel Photodetector. , 2020, , .		1
14	38: A 2T1C AMOLED Display with External Compensation Reducing On-panel Current Variations to 0.079%. Digest of Technical Papers SID International Symposium, 2020, 51, 547-550.	0.1	4
15	Electrostatic discharge robustness of amorphous indium-gallium-zinc-oxide thin-film transistors. Microelectronics Reliability, 2020, 108, 113632.	0.9	4
16	Polymer-based piezoelectric ultrasound transducer arrays on glass demonstrating mid-air applications. , 2020, , .		5
17	A Low Power Time Domain ECG Interface Based on Flexible a-IGZO TFTs. , 2019, , .		4
18	Crossover Logic: A Low-Power Topology for Unipolar Dual-Gate Thin-Film Technologies. IEEE Solid-State Circuits Letters, 2019, 2, 49-52.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Flexible amplifiers for vital-sign monitoring. Nature Electronics, 2019, 2, 325-326.	13.1	5
20	Flexible 16nJ/c.s. 134S/s 6b MIM C-2C ADC using Dual Gate Self-aligned Unipolar Metal-Oxide TFTs. , 2019, , .		6
21	Concise Analytical Expression for Wunsch-Bell 1-D Pulsed Heating and Applications in ESD Using TLP. , 2019, , .		0
22	Dual-gate self-aligned a-InGaZnO transistor model for flexible circuit applications. , 2019, , .		3
23	Invited Paper: Metal-Oxide readout electronics based on Indium-Gallium-Zinc-Oxide and Indium-Tin-Zinc-Oxide for in-panel fingerprint detection application. Digest of Technical Papers SID International Symposium, 2019, 50, 95-98.	0.1	9
24	High Performance Dual-Gate Dual-Layer Amorphous Oxide Semiconductors TFTs on PI Foil for Display Application. Digest of Technical Papers SID International Symposium, 2019, 50, 1255-1258.	0.1	6
25	12.3 Memory Solutions for Flexible Thin-Film Logic: up to 8kb, >105.9kb/s LPRAM and SRAM with Integrated Timing Generation Meeting the ISO NFC Standard. , 2019, , .		3
26	Touchscreen tags based on thin-film electronics for the Internet of Everything. Nature Electronics, 2019, 2, 606-611.	13.1	23
27	Integrated Tin Monoxide P-Channel Thin-Film Transistors for Digital Circuit Applications. IEEE Transactions on Electron Devices, 2018, 65, 514-519.	1.6	11
28	The development of flexible integrated circuits based on thin-film transistors. Nature Electronics, 2018, 1, 30-39.	13.1	387
29	1cm <sup>2</sup> sub-1V Capacitive-Coupled Thin Film ID-Tag using Metal-oxide TFTs on Flexible Substrate. , 2018, , .		1
30	Monolithically integrated 1 TFT-1RRAM non-volatile memory cells fabricated on PI flexible substrate. , 2018, , .		2
31	Flexible Internet-of-Things Circuits Based on Thin-Film Transistors. , 2018, , .		0
32	A 52 $\mu$ W Heart-Rate Measurement Interface Fabricated on a Flexible Foil with A-IGZO TFTs. , 2018, , .		15
33	In-Panel 31.17dB 140kHz 87 $\mu$ W Unipolar Dual-Gate In-Ga-Zn-O Charge-Sense Amplifier for 500dpi Sensor Array on Flexible Displays. , 2018, , .		3
34	2-D Smart Surface Object Localization by Flexible 160-nW Monolithic Capacitively Coupled 12-b Identification Tags Based on Metal-Oxide TFTs. IEEE Transactions on Electron Devices, 2018, 65, 4861-4867.	1.6	8
35	Toward Temperature Tracking With Unipolar Metal-Oxide Thin-Film SAR C-2C ADC on Plastic. IEEE Journal of Solid-State Circuits, 2018, 53, 2263-2272.	3.5	42
36	35-2: 40x Current Variation Reduction Enabled by an External VT -Compensation Scheme for AMOLED Displays using a 3T2C-Pixel Circuit with Dual-Gate TFTs. Digest of Technical Papers SID International Symposium, 2018, 49, 437-440.	0.1	8

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37	15.2 A flexible ISO14443-A compliant 7.5mW 128b metal-oxide NFC barcode tag with direct clock division circuit from 13.56MHz carrier. , 2017, , .		42
38	Characteristics improvement of top-gate self-aligned amorphous indium gallium zinc oxide thin-film transistors using a dual-gate control. Journal of the Society for Information Display, 2017, 25, 349-355.	0.8	26
39	Flexible selfbiased 66.7nJ/c.s. 6bit 26S/s successive-approximation C-2C ADC with offset cancellation using unipolar Metal-Oxide TFTs. , 2017, , .		5
40	A Thin-Film, a-IGZO, 128b SRAM and LPROM Matrix With Integrated Periphery on Flexible Foil. IEEE Journal of Solid-State Circuits, 2017, 52, 3095-3103.	3.5	19
41	ESD characterisation of a-IGZO TFTs on Si and foil substrates. , 2017, , .		2
42	Flexible metal-oxide thin film transistor circuits for RFID and health patches. , 2016, , .		15
43	An active artificial iris controlled by a 25- $\mu$ W flexible thin-film driver. , 2016, , .		4
44	16.6 Flexible thin-film NFC transponder chip exhibiting data rates compatible to ISO NFC standards using self-aligned metal-oxide TFTs. , 2016, , .		35
45	ESD protection design in a-IGZO TFT technologies. , 2016, , .		5
46	16.5 A flexible thin-film pixel array with a charge-to-current gain of 59 $\mu$ A/pC and 0.33% nonlinearity and a cost effective readout circuit for large-area X-ray imaging. , 2016, , .		7
47	X-Ray Detector-on-Plastic With High Sensitivity Using Low Cost, Solution-Processed Organic Photodiodes. IEEE Transactions on Electron Devices, 2016, 63, 197-204.	1.6	81
48	P66: Impact of Buffer Layers on the Self-Aligned Top-Gate a-IGZO TFT Characteristics. Digest of Technical Papers SID International Symposium, 2015, 46, 1139-1142.	0.1	4
49	29.4: Flexible AMOLED Display with Integrated Gate Driver Operating at Operation Speed Compatible with 4k2k. Digest of Technical Papers SID International Symposium, 2015, 46, 427-430.	0.1	8
50	High performance x-ray imaging detectors on foil using solution-processed organic photodiodes with extremely low dark leakage current (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
51	Electrical Characterization of Flexible InGaZnO Transistors and 8-b Transponder Chip Down to a Bending Radius of 2 mm. IEEE Transactions on Electron Devices, 2015, 62, 4063-4068.	1.6	63
52	Integrated Line Driver for Digital Pulse-Width Modulation Driven AMOLED Displays on Flex. IEEE Journal of Solid-State Circuits, 2015, 50, 282-290.	3.5	20
53	Low-temperature formation of source-drain contacts in self-aligned amorphous oxide thin-film transistors. Journal of Information Display, 2015, 16, 111-117.	2.1	23
54	16.3 Flexible thin-film NFC tags powered by commercial USB reader device at 13.56MHz. , 2015, , .		21

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55	Self-aligned flexible organic thin-film transistors with gates patterned by nano-imprint lithography. <i>Organic Electronics</i> , 2015, 22, 140-146.	1.4	32
56	Large scale integration of flexible non-volatile, re-addressable memories using P(VDF-TrFE) and amorphous oxide transistors. <i>Semiconductor Science and Technology</i> , 2015, 30, 074003.	1.0	5
57	Flexible thin-film NFC tags. , 2015, 53, 182-189.		33
58	Back-channel-etch amorphous indium-gallium-zinc oxide thin-film transistors: The impact of source/drain metal etch and final passivation. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 111401.	0.8	27
59	Organic Imager on Readout Backplane Based on TFTs With Cross-Linkable Dielectrics. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 2197-2200.	1.3	5
60	An Integrated a-IGZO UHF Energy Harvester for Passive RFID Tags. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 3289-3295.	1.6	44
61	Ultralow power transponder in thin film circuit technology on foil with sub &#x2212; 1V operation voltage. , 2014, , .		4
62	X-ray imaging sensor arrays on foil using solution processed organic photodiodes and organic transistors. , 2014, , .		3
63	30.1 8b Thin-film microprocessor using a hybrid oxide-organic complementary technology with inkjet-printed P&lt;sup>2</sup>&lt;sup>2</sup>ROM memory. , 2014, , .		19
64	High performance a-IGZO thin-film transistors with mfa-PVD SiO<sub>2</sub> as an etch-stop layer. <i>Journal of the Society for Information Display</i> , 2014, 22, 23-28.	0.8	31
65	20.1: Flexible AMOLED Display and Gate-driver with Self-aligned IGZO TFT on Plastic Foil. <i>Digest of Technical Papers SID International Symposium</i> , 2014, 45, 248-251.	0.1	27
66	32.2: <i>Invited Paper</i>: Integration of Flexible AMOLED Displays Using Oxide Semiconductor TFT Backplanes. <i>Digest of Technical Papers SID International Symposium</i> , 2014, 45, 431-434.	0.1	12
67	13.4: Flexible Low Temperature Solution Processed Oxide Semiconductor TFT Backplanes for Use in AMOLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2014, 45, 161-163.	0.1	13
68	Circuits and AMOLED display with self-aligned a-IGZO TFTs on polyimide foil. <i>Journal of the Society for Information Display</i> , 2014, 22, 509-517.	0.8	23
69	Accounting for variability in the design of circuits with organic thin-film transistors. <i>Organic Electronics</i> , 2014, 15, 937-942.	1.4	17
70	30.2 Digital PWM-driven AMOLED display on flex reducing static power consumption. , 2014, , .		15
71	Flexible NAND-Like Organic Ferroelectric Memory Array. <i>IEEE Electron Device Letters</i> , 2014, 35, 539-541.	2.2	22
72	Solving the technology barriers in flexible AMOLED displays. , 2014, , .		0

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73	Bidirectional Communication in an HF Hybrid Organic/Solution-Processed Metal-Oxide RFID Tag. IEEE Transactions on Electron Devices, 2014, 61, 2387-2393.	1.6	27
74	Scaling limits of organic digital circuits. Organic Electronics, 2014, 15, 461-469.	1.4	25
75	Scaling down of organic complementary logic gates for compact logic on foil. Organic Electronics, 2014, 15, 1229-1234.	1.4	30
76	A thin-film microprocessor with inkjet print-programmable memory. Scientific Reports, 2014, 4, 7398.	1.6	71
77	Organic RFID Tags. Integrated Circuits and Systems, 2013, , 133-155.	0.2	4
78	18.4L: <i>Lateâ€News Paper</i>: Full Color Flexible Topâ€Emission AMOLED Display on Polyethylene Naphthalate (PEN) Foil with Metal Oxide TFTs Backplane. Digest of Technical Papers SID International Symposium, 2013, 44, 203-206.	0.1	12
79	Singleâ€source dualâ€layer amorphous IGZO thinâ€film transistors for display and circuit applications. Journal of the Society for Information Display, 2013, 21, 129-136.	0.8	40
80	X-ray imager using solution processed organic transistor arrays and bulk heterojunction photodiodes on thin, flexible plastic substrate. Organic Electronics, 2013, 14, 2602-2609.	1.4	89
81	Gigahertz Operation of a-IGZO Schottky Diodes. IEEE Transactions on Electron Devices, 2013, 60, 3407-3412.	1.6	64
82	Optimized circuit design for flexible 8-bit RFID transponders with active layer of ink-jet printed small molecule semiconductors. Organic Electronics, 2013, 14, 768-774.	1.4	70
83	Ferroelectric transistor memory arrays on flexible foils. Organic Electronics, 2013, 14, 1966-1971.	1.4	33
84	Paper No 19.3: Backâ€Channelâ€Etch Process Flow for aâ€IGZO TFTs. Digest of Technical Papers SID International Symposium, 2013, 44, 285-288.	0.1	0
85	Integrated UHF a-IGZO energy harvester for passive RFID tags. , 2013, , .		12
86	Novel backâ€channelâ€etch process flow based aâ€IGZO TFTs for circuit and display applications on PEN foil. Journal of the Society for Information Display, 2013, 21, 369-375.	0.8	27
87	UHF IGZO Schottky diode. , 2012, , .		21
88	High-performance a-In-Ga-Zn-O Schottky diode with oxygen-treated metal contacts. Applied Physics Letters, 2012, 101, .	1.5	81
89	Solutionâ€processed and lowâ€temperature metal oxide nâ€channel thinâ€film transistors and lowâ€voltage complementary circuitry on largeâ€area flexible polyimide foil. Journal of the Society for Information Display, 2012, 20, 499-507.	0.8	19
90	Complementary integrated circuits on plastic foil using inkjet printed n- and p-type organic semiconductors: Fabrication, characterization, and circuit analysis. Organic Electronics, 2012, 13, 1686-1692.	1.4	54

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91	Design and realization of a flexible QQVGA AMOLED display with organic TFTs. Organic Electronics, 2012, 13, 1729-1735.	1.4	89
92	Bidirectional communication in an HF hybrid organic/solution-processed metal-oxide RFID tag. , 2012, , .		24
93	Organic Thin-Film Transistors with Anodized Gate Dielectric Patterned by Self-Aligned Embossing on Flexible Substrates. Advanced Functional Materials, 2012, 22, 1209-1214.	7.8	24
94	An 8-Bit, 40-Instructions-Per-Second Organic Microprocessor on Plastic Foil. IEEE Journal of Solid-State Circuits, 2012, 47, 284-291.	3.5	177
95	Charge Transport in Organic Transistors Accounting for a Wide Distribution of Carrier Energies-Part II: TFT Modeling. IEEE Transactions on Electron Devices, 2012, 59, 1520-1528.	1.6	44
96	An 8b organic microprocessor on plastic foil. , 2011, , .		31
97	Circuit design in organic semiconductor technologies. , 2011, , .		2
98	Unipolar Organic Transistor Circuits Made Robust by Dual-Gate Technology. IEEE Journal of Solid-State Circuits, 2011, 46, 1223-1230.	3.5	114
99	Low-temperature and scalable complementary thin-film technology based on solution-processed metal oxide n-TFTs and pentacene p-TFTs. Organic Electronics, 2011, 12, 1909-1913.	1.4	45
100	Dual-Gate Thin-Film Transistors, Integrated Circuits and Sensors. Advanced Materials, 2011, 23, 3231-3242.	11.1	142
101	Room-temperature solution-processed high-k gate dielectrics for large area electronics applications. Organic Electronics, 2011, 12, 955-960.	1.4	15
102	Circuit design in organic semiconductor technologies. , 2011, , .		3
103	Low-voltage gallium-indium-zinc-oxide thin film transistors based logic circuits on thin plastic foil: Building blocks for radio frequency identification application. Applied Physics Letters, 2011, 98, 162102.	1.5	67
104	Towards EPC-Compatible Organic RFID Tags. , 2011, , 347-367.		0
105	Organic RFID transponder chip with data rate compatible with electronic product coding. Organic Electronics, 2010, 11, 1176-1179.	1.4	237
106	Towards EPC Compatible Plastic RFID Tags. ECS Meeting Abstracts, 2010, MA2010-02, 1830-1830.	0.0	0
107	Organic complementary oscillators with stage-delays below $1\frac{1}{4}$ s. Applied Physics Letters, 2010, 96, 133307.	1.5	34
108	Robust digital design in organic electronics by dual-gate technology. , 2010, , .		19

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109	(Invited) Towards EPC Compatible Plastic RFID Tags. ECS Transactions, 2010, 33, 383-389.	0.3	4
110	Design and manufacturing of organic RFID circuits: Coping with intrinsic parameter variations in organic devices by circuit design. , 2010, , .		4
111	Organic transistor technology options for device performance versus technology options for increased circuit reliability and yield on foil. , 2010, , .		0
112	Light, bias, and temperature effects on organic TFTs. , 2010, , .		12
113	Controlled Deposition of Highly Ordered Soluble Acene Thin Films: Effect of Morphology and Crystal Orientation on Transistor Performance. Advanced Materials, 2009, 21, 4926-4931.	11.1	133
114	Plastic circuits and tags for 13.56MHz radio-frequency communication. Solid-State Electronics, 2009, 53, 1220-1226.	0.8	127
115	A 128b organic RFID transponder chip, including Manchester encoding and ALOHA anti-collision protocol, operating with a data rate of 1529b/s. , 2009, , .		28
116	Thin-film transistors and circuits on plastic foil. , 2009, , .		2
117	An Inductively-Coupled 64b Organic RFID Tag Operating at 13.56MHz with a Data Rate of 787b/s. , 2008, , .		32
118	Ultra-High Frequency rectification using organic diodes. , 2008, , .		13
119	An integrated double half-wave organic Schottky diode rectifier on foil operating at 13.56 MHz. Applied Physics Letters, 2008, 93, 093305.	1.5	71
120	Organic phototransistor behavior and light-accelerated bias stress. , 2007, 6658, 98.		2
121	Correlation between bias stress instability and phototransistor operation of pentacene thin-film transistors. Applied Physics Letters, 2007, 91, 103508.	1.5	104
122	Organic CuTCNQ non-volatile memories for integration in the CMOS backend-of-line: Preparation from gas/solid reaction and downscaling to an area of 0.25 $\mu$ m <sup>2</sup> . Solid-State Electronics, 2006, 50, 601-605.	0.8	40
123	Organic CuTCNQ integrated in complementary metal oxide semiconductor copper back end-of-line for nonvolatile memories. Applied Physics Letters, 2006, 89, 223501.	1.5	37
124	Integrated shadow mask method for patterning small molecule organic semiconductors. Applied Physics Letters, 2006, 88, 103501.	1.5	52
125	Pentacene devices and logic gates fabricated by organic vapor phase deposition. Applied Physics Letters, 2006, 89, 203502.	1.5	43
126	Comparison of organic diode structures regarding high-frequency rectification behavior in radio-frequency identification tags. Journal of Applied Physics, 2006, 99, 114519.	1.1	103



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127	Low voltage complementary organic inverters. Applied Physics Letters, 2006, 88, 162116.	1.5	61
128	Self-aligned surface treatment for thin-film organic transistors. Applied Physics Letters, 2006, 88, 222103.	1.5	34
129	Patterning of organic thin film transistors by oxygen plasma etch. Applied Physics Letters, 2006, 89, 183503.	1.5	42
130	50 MHz rectifier based on an organic diode. Nature Materials, 2005, 4, 597-600.	13.3	240
131	High-Performance Low Voltage Organic Thin-Film Transistors. Materials Research Society Symposia Proceedings, 2005, 870, 141.	0.1	9
132	Organic circuit components for pentacene RF-ID tags. , 0, , .		0