

# Kris Myny

## List of Publications by Year in descending order

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132  
papers

4,295  
citations

117571

34  
h-index

123376

61  
g-index

136  
all docs

136  
docs citations

136  
times ranked

3919  
citing authors

#	ARTICLE	IF	CITATIONS
1	The development of flexible integrated circuits based on thin-film transistors. Nature Electronics, 2018, 1, 30-39.	13.1	387
2	50 MHz rectifier based on an organic diode. Nature Materials, 2005, 4, 597-600.	13.3	240
3	Organic RFID transponder chip with data rate compatible with electronic product coding. Organic Electronics, 2010, 11, 1176-1179.	1.4	237
4	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
5	Dual-Gate Thin-Film Transistors, Integrated Circuits and Sensors. Advanced Materials, 2011, 23, 3231-3242.	11.1	142
6	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
7	Plastic circuits and tags for 13.56MHz radio-frequency communication. Solid-State Electronics, 2009, 53, 1220-1226.	0.8	127
8	Unipolar Organic Transistor Circuits Made Robust by Dual-Gate Technology. IEEE Journal of Solid-State Circuits, 2011, 46, 1223-1230.	3.5	114
9	Correlation between bias stress instability and phototransistor operation of pentacene thin-film transistors. Applied Physics Letters, 2007, 91, 103508.	1.5	104
10	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
11	Design and realization of a flexible QVGA AMOLED display with organic TFTs. Organic Electronics, 2012, 13, 1729-1735.	1.4	89
12	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
13	High-performance a-In-Ga-Zn-O Schottky diode with oxygen-treated metal contacts. Applied Physics Letters, 2012, 101, .	1.5	81
14	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
15	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
16	A thin-film microprocessor with inkjet print-programmable memory. Scientific Reports, 2014, 4, 7398.	1.6	71
17	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
18	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

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19	Gigahertz Operation of a-IGZO Schottky Diodes. IEEE Transactions on Electron Devices, 2013, 60, 3407-3412.	1.6	64
20	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
21	A flexible ECG patch compatible with NFC RF communication. Npj Flexible Electronics, 2020, 4, .	5.1	62
22	Low voltage complementary organic inverters. Applied Physics Letters, 2006, 88, 162116.	1.5	61
23	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
24	Integrated shadow mask method for patterning small molecule organic semiconductors. Applied Physics Letters, 2006, 88, 103501.	1.5	52
25	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
26	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
27	An Integrated a-IGZO UHF Energy Harvester for Passive RFID Tags. IEEE Transactions on Electron Devices, 2014, 61, 3289-3295.	1.6	44
28	Pentacene devices and logic gates fabricated by organic vapor phase deposition. Applied Physics Letters, 2006, 89, 203502.	1.5	43
29	Patterning of organic thin film transistors by oxygen plasma etch. Applied Physics Letters, 2006, 89, 183503.	1.5	42
30	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
31	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
32	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
33	Single-source dual-layer amorphous IGZO thin-film transistors for display and circuit applications. Journal of the Society for Information Display, 2013, 21, 129-136.	0.8	40
34	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
35	16.6 Flexible thin-film NFC transponder chip exhibiting data rates compatible to ISO NFC standards using self-aligned metal-oxide TFTs. , 2016, , .		35
36	Self-aligned surface treatment for thin-film organic transistors. Applied Physics Letters, 2006, 88, 222103.	1.5	34

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37	Organic complementary oscillators with stage-delays below 1â€µs. Applied Physics Letters, 2010, 96, 133307.	1.5	34
38	Ferroelectric transistor memory arrays on flexible foils. Organic Electronics, 2013, 14, 1966-1971.	1.4	33
39	Flexible thin-film NFC tags. , 2015, 53, 182-189.		33
40	An Inductively-Coupled 64b Organic RFID Tag Operating at 13.56MHz with a Data Rate of 787b/s. , 2008, , .		32
41	Self-aligned flexible organic thin-film transistors with gates patterned by nano-imprint lithography. Organic Electronics, 2015, 22, 140-146.	1.4	32
42	An 8b organic microprocessor on plastic foil. , 2011, , .		31
43	High performance aâ€IGZO thinâ€film transistors with mfa€PVD SiO<sub>2</sub> as an etchâ€stopâ€layer. Journal of the Society for Information Display, 2014, 22, 23-28.	0.8	31
44	Scaling down of organic complementary logic gates for compact logic on foil. Organic Electronics, 2014, 15, 1229-1234.	1.4	30
45	A 128b organic RFID transponder chip, including Manchester encoding and ALOHA anti-collision protocol, operating with a data rate of 1529b/s. , 2009, , .		28
46	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
47	Back-channel-etch amorphous indiumâ€galliumâ€zinc oxide thin-film transistors: The impact of source/drain metal etch and final passivation. Japanese Journal of Applied Physics, 2014, 53, 111401.	0.8	27
48	20.1: Flexible AMOLED Display and Gateâ€driver with Selfâ€aligned IGZO TFT on Plastic Foil. Digest of Technical Papers SID International Symposium, 2014, 45, 248-251.	0.1	27
49	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
50	Characteristics improvement of topâ€gate selfâ€aligned amorphous indium gallium zinc oxide thinâ€film transistors using a dualâ€gate control. Journal of the Society for Information Display, 2017, 25, 349-355.	0.8	26
51	Scaling limits of organic digital circuits. Organic Electronics, 2014, 15, 461-469.	1.4	25
52	Bidirectional communication in an HF hybrid organic/solution-processed metal-oxide RFID tag. , 2012, , .		24
53	Organic Thinâ€Film Transistors with Anodized Gate Dielectric Patterned by Selfâ€Aligned Embossing on Flexible Substrates. Advanced Functional Materials, 2012, 22, 1209-1214.	7.8	24
54	Circuits and AMOLED display with self-aligned a-IGZO TFTs on polyimide foil. Journal of the Society for Information Display, 2014, 22, 509-517.	0.8	23

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55	Low-temperature formation of source-drain contacts in self-aligned amorphous oxide thin-film transistors. <i>Journal of Information Display</i> , 2015, 16, 111-117.	2.1	23
56	Touchscreen tags based on thin-film electronics for the Internet of Everything. <i>Nature Electronics</i> , 2019, 2, 606-611.	13.1	23
57	Flexible NAND-Like Organic Ferroelectric Memory Array. <i>IEEE Electron Device Letters</i> , 2014, 35, 539-541.	2.2	22
58	UHF IGZO Schottky diode. , 2012, , .		21
59	16.3 Flexible thin-film NFC tags powered by commercial USB reader device at 13.56MHz. , 2015, , .		21
60	Integrated Line Driver for Digital Pulse-Width Modulation Driven AMOLED Displays on Flex. <i>IEEE Journal of Solid-State Circuits</i> , 2015, 50, 282-290.	3.5	20
61	Robust digital design in organic electronics by dual-gate technology. , 2010, , .		19
62	Solution-processed and low-temperature metal oxide n-channel thin-film transistors and low-voltage complementary circuitry on large-area flexible polyimide foil. <i>Journal of the Society for Information Display</i> , 2012, 20, 499-507.	0.8	19
63	30.1 8b Thin-film microprocessor using a hybrid oxide-organic complementary technology with inkjet-printed P&lt;sup>2</sup>/sup>ROM memory. , 2014, , .		19
64	A Thin-Film, a-IGZO, 128b SRAM and LPRAM Matrix With Integrated Periphery on Flexible Foil. <i>IEEE Journal of Solid-State Circuits</i> , 2017, 52, 3095-3103.	3.5	19
65	Accounting for variability in the design of circuits with organic thin-film transistors. <i>Organic Electronics</i> , 2014, 15, 937-942.	1.4	17
66	Room-temperature solution-processed high-k gate dielectrics for large area electronics applications. <i>Organic Electronics</i> , 2011, 12, 955-960.	1.4	15
67	30.2 Digital PWM-driven AMOLED display on flex reducing static power consumption. , 2014, , .		15
68	Flexible metal-oxide thin film transistor circuits for RFID and health patches. , 2016, , .		15
69	A 52 $\mu$ W Heart-Rate Measurement Interface Fabricated on a Flexible Foil with A-IGZO TFTs. , 2018, , .		15
70	Ultra-High Frequency rectification using organic diodes. , 2008, , .		13
71	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
72	Light, bias, and temperature effects on organic TFTs. , 2010, , .		12

#	ARTICLE	IF	CITATIONS
73	18.4L: <i>Late News Paper</i>: Full Color Flexible Top-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
74	Integrated UHF a-IGZO energy harvester for passive RFID tags. , 2013, , .		12
75	32.2: <i>Invited Paper</i>: Integration of Flexible AMOLED Displays Using Oxide Semiconductor TFT Backplanes. Digest of Technical Papers SID International Symposium, 2014, 45, 431-434.	0.1	12
76	Integrated Tin Monoxide P-Channel Thin-Film Transistors for Digital Circuit Applications. IEEE Transactions on Electron Devices, 2018, 65, 514-519.	1.6	11
77	High-Performance Low Voltage Organic Thin-Film Transistors. Materials Research Society Symposia Proceedings, 2005, 870, 141.	0.1	9
78	9&#246;1: <i>Invited Paper:</i> Metal&#246;oxide readout electronics based on Indium&#246;Gallium&#246;Zinc&#246;Oxide and Indium&#246;In&#246;Zinc&#246;Oxide for in&#246;panel fingerprint detection application. Digest of Technical Papers SID International Symposium, 2019, 50, 95-98.	0.1	9
79	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
80	2-D Smart Surface Object Localization by Flexible 160-nW Monolithic Capacitively Coupled 12-b Identification Tags Based on Metal&#246;Oxide TFTs. IEEE Transactions on Electron Devices, 2018, 65, 4861-4867.	1.6	8
81	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
82	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
83	16.5 A flexible thin-film pixel array with a charge-to-current gain of 59&#246;A/pC and 0.33% nonlinearity and a cost effective readout circuit for large-area X-ray imaging. , 2016, , .		7
84	Flexible 16nJ/c.s. 134S/s 6b MIM C-2C ADC using Dual Gate Self-aligned Unipolar Metal-Oxide TFTs. , 2019, , .		6
85	P&#246;12: High Performance Dual&#246;gate Dual&#246;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
86	Organic Imager on Readout Backplane Based on TFTs With Cross-Linkable Dielectrics. IEEE Photonics Technology Letters, 2014, 26, 2197-2200.	1.3	5
87	Large scale integration of flexible non-volatile, re-addressable memories using P(VDF-TrFE) and amorphous oxide transistors. Semiconductor Science and Technology, 2015, 30, 074003.	1.0	5
88	ESD protection design in a-IGZO TFT technologies. , 2016, , .		5
89	Flexible selfbiased 66.7nJ/c.s. 6bit 26S/s successive-approximation C-2C ADC with offset cancellation using unipolar Metal-Oxide TFTs. , 2017, , .		5
90	Flexible amplifiers for vital-sign monitoring. Nature Electronics, 2019, 2, 325-326.	13.1	5

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91	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
92	Polymer-based piezoelectric ultrasound transducer arrays on glass demonstrating mid-air applications. , 2020, , .		5
93	(Invited) Towards EPC Compatible Plastic RFID Tags. ECS Transactions, 2010, 33, 383-389.	0.3	4
94	Design and manufacturing of organic RFID circuits: Coping with intrinsic parameter variations in organic devices by circuit design. , 2010, , .		4
95	Organic RFID Tags. Integrated Circuits and Systems, 2013, , 133-155.	0.2	4
96	Ultralow power transponder in thin film circuit technology on foil with sub &#x2212;1V operation voltage. , 2014, , .		4
97	P&#x00e6; Impact of Buffer Layers on the Self-Aligned Top-Gate a&#x2013;IGZO TFT Characteristics. Digest of Technical Papers SID International Symposium, 2015, 46, 1139-1142.	0.1	4
98	An active artificial iris controlled by a 25-1/4W flexible thin-film driver. , 2016, , .		4
99	A Low Power Time Domain ECG Interface Based on Flexible a-IGZO TFTs. , 2019, , .		4
100	38&#x00e4; A 2T1C AMOLED Display with External Compensation Reducing On&#x2013;Panel Current Variations to 0.079%. Digest of Technical Papers SID International Symposium, 2020, 51, 547-550.	0.1	4
101	Electrostatic discharge robustness of amorphous indium-gallium-zinc-oxide thin-film transistors. Microelectronics Reliability, 2020, 108, 113632.	0.9	4
102	Circuit design in organic semiconductor technologies. , 2011, , .		3
103	X-ray imaging sensor arrays on foil using solution processed organic photodiodes and organic transistors. , 2014, , .		3
104	In-Panel 31.17dB 140kHz 87&#x00b5;W Unipolar Dual-Gate In-Ga-Zn-O Charge-Sense Amplifier for 500dpi Sensor Array on Flexible Displays. , 2018, , .		3
105	Dual-gate self-aligned a-InGaZnO transistor model for flexible circuit applications. , 2019, , .		3
106	12.3 Memory Solutions for Flexible Thin-Film Logic: up to 8kb, &gt;105.9kb/s LPRM and SRAM with Integrated Timing Generation Meeting the ISO NFC Standard. , 2019, , .		3
107	A Low Power Dynamic Circuit Topology towards a-IGZO Thin-Film Ultrasonic Transducer Driving Circuit. , 2021, , .		3
108	Dual-Input Pseudo-CMOS Logic for Digital Applications on Flexible Substrates. , 2021, , .		3

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109	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
110	Organic phototransistor behavior and light-accelerated bias stress. , 2007, 6658, 98.		2
111	Thin-film transistors and circuits on plastic foil. , 2009, , .		2
112	Circuit design in organic semiconductor technologies. , 2011, , .		2
113	ESD characterisation of a-IGZO TFTs on Si and foil substrates. , 2017, , .		2
114	Monolithically integrated 1 TFT-1RRAM non-volatile memory cells fabricated on PI flexible substrate. , 2018, , .		2
115	78â€¢4: IGZOâ€¢based Identification Tags Communicating with Everyday Touchscreens. Digest of Technical Papers SID International Symposium, 2020, 51, 1167-1170.	0.1	2
116	2cm diameter Antenna & Sharp Multi-threshold Detection Thin-film RFID Tags on Flexible substrate. , 2021, , .		2
117	1cm <sup>2</sup> sub-1V Capacitive-Coupled Thin Film ID-Tag using Metal-oxide TFTs on Flexible Substrate. , 2018, , .		1
118	AMOLED Displays with In-Pixel Photodetector. , 2020, , .		1
119	A study on lower saturation voltage of dual-gate thin-film a-IGZO MOS transistors. , 2021, , .		1
120	A 36V Ultrasonic Driver for Haptic Feedback Using Advanced Charge Recycling Achieving 0.20CV <sup>2</sup> /sup>f Power Consumption. , 2021, , .		1
121	Organic circuit components for pentacene RF-ID tags. , 0, , .		0
122	Towards EPC Compatible Plastic RFID Tags. ECS Meeting Abstracts, 2010, MA2010-02, 1830-1830.	0.0	0
123	Organic transistor technology options for device performance versus technology options for increased circuit reliability and yield on foil. , 2010, , .		0
124	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
125	Solving the technology barriers in flexible AMOLED displays. , 2014, , .		0
126	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



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127	Flexible Internet-of-Things Circuits Based on Thin-Film Transistors. , 2018, , .		0
128	Concise Analytical Expression for Wunsch-Bell 1-D Pulsed Heating and Applications in ESD Using TLP. , 2019, , .		0
129	Two-Stage Resistor-Load Logic for Digital Applications on Flexible Substrates. , 2021, , .		0
130	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
131	Towards EPC-Compatible Organic RFID Tags. , 2011, , 347-367.		0
132	A 36V Ultrasonic Driver for Haptic Feedback Using Advanced Charge Recycling Achieving 0.20CV <sup>2</sup> Power Consumption. , 2021, , .		0