

Niko Mnzenrieder

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9409171/niko-munzenrieder-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

2,973
citations

29
h-index

52
g-index

134
ext. papers

3,406
ext. citations

4.7
avg, IF

5.13
L-index

#	Paper	IF	Citations
114	Lessons Learned in Developing Sensorised Textiles to Capture Body Shapes. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022 , 365-380	0.2	
113	Flexible Electronics for Wireless Communication: A Technology and Circuit Design Review With an Application Example. <i>IEEE Microwave Magazine</i> , 2022 , 23, 24-44	1.2	3
112	Coco Stretch: Strain Sensors Based on Natural Coconut Oil and Carbon Black Filled Elastomers. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000780	6.8	6
111	Fabricating and Assembling Acoustic Metamaterials and Phononic Crystals. <i>Advanced Engineering Materials</i> , 2021 , 23, 2000988	3.5	10
110	Design and Characterisation of a Non-contact Flexible Sensor Array for Electric Potential Imaging Applications. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	4
109	Fabricating and Assembling Acoustic Metamaterials and Phononic Crystals. <i>Advanced Engineering Materials</i> , 2021 , 23, 2170008	3.5	1
108	Strain Sensors: Coco Stretch: Strain Sensors Based on Natural Coconut Oil and Carbon Black Filled Elastomers (Adv. Mater. Technol. 2/2021). <i>Advanced Materials Technologies</i> , 2021 , 6, 2170012	6.8	0
107	Non-contact thin-film sheet conductance measurement based on the attenuation of low frequency electric potentials. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 414003	3	
106	A Low-Cost Method to Prepare Biocompatible Filaments with Enhanced Physico-Mechanical Properties for FDM 3D Printing. <i>Current Drug Delivery</i> , 2021 , 18, 700-711	3.2	0
105	Inferring Complex Textile Shape from an Integrated Carbon Black-infused Ecoflex-based Bend and Stretch Sensor Array 2021 ,		2
104	Oxide Thin-Film Electronics for the Front-End Conditioning of Flexible Magnetic Field Sensors. <i>Minerals, Metals and Materials Series</i> , 2021 , 294-302	0.3	
103	Non-contact Measurement of DC Potentials with Applications in Static Charge Imaging 2020 ,		3
102	Copper wire based electrical contacts for direct interfacing of stretchable sensors 2020 ,		1
101	Flexible Bootstrapped Cascode System with Feedback for Capacitive Through-Substrate Electric Potential Measurements with a 55 dB Relative Gain 2020 ,		2
100	Focused ion beam milling for the fabrication of 160 nm channel length IGZO TFTs on flexible polymer substrates. <i>Flexible and Printed Electronics</i> , 2020 , 5, 015007	3.1	8
99	Review of recent trends in flexible metal oxide thin-film transistors for analog applications. <i>Flexible and Printed Electronics</i> , 2020 , 5, 033001	3.1	17
98	Long-Term Aging of Al ₂ O ₃ Passivated and Unpassivated Flexible a-IGZO TFTs. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4934-4939	2.9	2

97	Flexible Micro-Scale Sensor Array for Non-Contact Electric Potential Imaging 2020 ,		2
96	Flexible IGZO thin-film transistors with liquid EGaln gate contacts 2019 ,		1
95	Design of bendable high-frequency circuits based on short-channel InGaZnO TFTs 2019 ,		2
94	5B1-Hz 188- μ W Light-Sensing Oscillator With Two Active Inductors Fully Integrated on Plastic. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 2195-2206	5.5	5
93	Flexible Green Perovskite Light Emitting Diodes. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 769-775	2.3	2
92	Fabrication and AC Performance of Flexible Indium-Gallium-Zinc-Oxide Thin-Film Transistors. <i>ECS Transactions</i> , 2019 , 90, 55-63	1	7
91	Flexible SensorsFrom Materials to Applications. <i>Technologies</i> , 2019 , 7, 35	2.4	78
90	Flexible IGZO TFTs and Their Suitability for Space Applications. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 1182-1190	2.3	7
89	Directly 3D-printed monolithic soft robotic gripper with liquid metal microchannels for tactile sensing. <i>Flexible and Printed Electronics</i> , 2019 , 4, 035001	3.1	10
88	Flexible Temperature Sensor Integration into E-Textiles Using Different Industrial Yarn Fabrication Processes. <i>Sensors</i> , 2019 , 20,	3.8	23
87	Non-contact long range AC voltage measurement 2019 ,		5
86	ShapeSense3D 2019 ,		5
85	Hand-Drawn Resistors, Capacitors, Diodes, and Circuits for a Pressure Sensor System on Paper. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700600	6.4	9
84	Flexible InGaZnO TFTs With f_{max} Above 300 MHz. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1310-1313	4.4	18
83	Flexible InGaZnO Thin-Film Transistors With Sub-300-nm Channel Lengths Defined by Two-Photon Direct Laser Writing. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3796-3802	2.9	8
82	Flexible IGZO TFT SPICE Model and Design of Active Strain-Compensation Circuits for Bendable Active Matrix Arrays. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1314-1317	4.4	12
81	Improvement of contact resistance in flexible a-IGZO thin-film transistors by CF ₄ /O ₂ plasma treatment. <i>Solid-State Electronics</i> , 2018 , 150, 23-27	1.7	7
80	Design of Engineered Elastomeric Substrate for Stretchable Active Devices and Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705132	15.6	29

79	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. <i>IEEE Sensors Journal</i> , 2017 , 17, 3635-3643	4	6
78	Charge Trapping Mechanism Leading to Sub-60-mV/decade-Swing FETs. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 2789-2796	2.9	22
77	Solution-processed p-type copper(I) thiocyanate (CuSCN) for low-voltage flexible thin-film transistors and integrated inverter circuits. <i>Applied Physics Letters</i> , 2017 , 110, 113504	3.4	25
76	Gain-Tunable Complementary Common-Source Amplifier Based on a Flexible Hybrid Thin-Film Transistor Technology. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1536-1539	4.4	11
75	Ferroelectric-Like Charge Trapping Thin-Film Transistors and Their Evaluation as Memories and Synaptic Devices. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700309	6.4	27
74	Buckled Thin-Film Transistors and Circuits on Soft Elastomers for Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28750-28757	9.5	40
73	Geometry-Based Tunability Enhancement of Flexible Thin-Film Varactors. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1117-1120	4.4	3
72	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1043-1046	4.4	5
71	Flexible CMOS electronics based on p-type Ge ₂ Sb ₂ Te ₅ and n-type InGaZnO ₄ semiconductors 2017 ,		1
70	A transistor model for a-IGZO TFT circuit design built upon the RPI-aTFT model 2017 ,		7
69	35 V, 38.8 MHz OOK modulator with a-IGZO TFTs for flexible wireless transmitter 2017 ,		4
68	Program FFlexCom [High frequency flexible bendable electronics for wireless communication systems 2017 ,		6
67	Oxide Thin-Film Transistors on Fibers for Smart Textiles. <i>Technologies</i> , 2017 , 5, 31	2.4	5
66	Entirely Flexible On-Site Conditioned Magnetic Sensorics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600188	8.4	26
65	Flexible a-IGZO Phototransistor for Instantaneous and Cumulative UV-Exposure Monitoring for Skin Health. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600273	6.4	47
64	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
63	A wearable bluetooth LE sensor for patient monitoring during MRI scans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4975-4978	0.9	3
62	3.5mW 1MHz AM detector and digitally-controlled tuner in a-IGZO TFT for wireless communications in a fully integrated flexible system for audio bag 2016 ,		4

61	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
60	Design and analysis of high-gain amplifiers in flexible self-aligned a-IGZO thin-film transistor technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2016 , 87, 213-222	1.2	7
59	Metal oxide semiconductor thin-film transistors for flexible electronics. <i>Applied Physics Reviews</i> , 2016 , 3, 021303	17.3	380
58	Flexible InGaZnO-Based Circuits With Two and Three Metal Layers: Simulation and Fabrication Study. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1582-1585	4.4	10
57	Positive charge trapping phenomenon in n-channel thin-film transistors with amorphous alumina gate insulators. <i>Journal of Applied Physics</i> , 2016 , 120, 244501	2.5	16
56	Flexible InGaZnO Thin-Film Transistors on Elastomeric Substrate Bent to 2.3% Strain. <i>IEEE Electron Device Letters</i> , 2015 , 36, 781-783	4.4	31
55	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 475-477	4.4	27
54	Programmable e-textile composite Circuit 2015 ,		4
53	15 dB conversion gain, 20 MHz carrier frequency AM receiver in flexible a-IGZO TFT technology with textile antennas 2015 ,		2
52	A 70°phase margin OPAMP with positive feedback in flexible a-IGZO TFT technology 2015 ,		11
51	Bendable energy-harvesting module with organic photovoltaic, rechargeable battery, and a-IGZO TFT charging electronics 2015 ,		6
50	Design and simulation of a 800 Mbit/s data link for magnetic resonance imaging wearables. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1323-6	0.9	
49	Biomimetic Microelectronics for Regenerative Neuronal Cuff Implants. <i>Advanced Materials</i> , 2015 , 27, 6797-805	24	72
48	Digital output flexible tilt sensor with conductive microspheres 2015 ,		1
47	Baseband amplifiers in a-IGZO TFT technology for flexible audio systems 2015 ,		2
46	Low-temperature spray-deposited indium oxide for flexible thin-film transistors and integrated circuits. <i>Applied Physics Letters</i> , 2015 , 106, 092105	3.4	38
45	20 MHz carrier frequency AM receiver in flexible a-IGZO TFT technology with textile antennas 2015 ,		3
44	15 dB Conversion gain, 20 MHz carrier frequency AM receiver in flexible a-IGZO TFT technology with textile antennas 2015 ,		5

43	2015,		4
42	Stretchable and Conformable Oxide Thin-Film Electronics. <i>Advanced Electronic Materials</i> , 2015 , 1, 14000384		50
41	Wafer-scale design of lightweight and transparent electronics that wraps around hairs. <i>Nature Communications</i> , 2014 , 5, 2982	17.4	249
40	Flexible Self-Aligned Double-Gate IGZO TFT. <i>IEEE Electron Device Letters</i> , 2014 , 35, 69-71	4.4	56
39	Flexible electronics based on oxide semiconductors 2014,		1
38	Integration of solution-processed (7,5) SWCNTs with sputtered and spray-coated metal oxides for flexible complementary inverters 2014,		7
37	Cherry-Hooper amplifiers with 33 dB gain at 400 kHz BW and 10 dB gain at 3.5 MHz BW in flexible self-aligned a-IGZO TFT technology 2014,		11
36	22.5 dB open-loop gain, 31 kHz GBW pseudo-CMOS based operational amplifier with a-IGZO TFTs on a flexible film 2014,		25
35	High gain amplifiers in flexible self-aligned a-IGZO thin-film-transistor technology 2014,		10
34	Contact resistance and overlapping capacitance in flexible sub-micron long oxide thin-film transistors for above 100 MHz operation. <i>Applied Physics Letters</i> , 2014 , 105, 263504	3.4	47
33	High performance flexible electronics for biomedical devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4176-9	0.9	4
32	Influence of Mechanical Bending on Flexible InGaZnO-Based Ferroelectric Memory TFTs. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1085-1092	2.9	37
31	Fabrication and transfer of flexible few-layers MoS ₂ thin film transistors to any arbitrary substrate. <i>ACS Nano</i> , 2013 , 7, 8809-15	16.7	158
30	Flexible Self-Aligned Amorphous InGaZnO Thin-Film Transistors With Submicrometer Channel Length and a Transit Frequency of 135 MHz. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2815-2820	2.9	80
29	IGZO TFT-Based All-Enhancement Operational Amplifier Bent to a Radius of 5 mm. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1394-1396	4.4	67
28	Investigation of gate material ductility enables flexible a-IGZO TFTs bendable to a radius of 1.7 mm 2013,		18
27	2013,		11
26	The influence of bending on the performance of flexible carbon black/polymer composite gas sensors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 329-336	2.6	11

25	Flexible double gate a-IGZO TFT fabricated on free standing polyimide foil. <i>Solid-State Electronics</i> , 2013 , 84, 198-204	1.7	39
24	Room temperature fabricated flexible NiO/IGZO pn diode under mechanical strain. <i>Solid-State Electronics</i> , 2013 , 87, 17-20	1.7	30
23	Textile integrated sensors and actuators for near-infrared spectroscopy. <i>Optics Express</i> , 2013 , 21, 3213-243	3.3	37
22	InGaZnO TFTs on a flexible membrane transferred to a curved surface with a radius of 2 mm 2013 ,		5
21	Fabrication technologies for the integration of thin-film electronics into smart textiles 2013 , 227-252		
20	Combining electronics on flexible plastic strips with textiles. <i>Textile Reseach Journal</i> , 2013 , 83, 1130-1142.	1.7	30
19	A Compact a-IGZO TFT Model Based on MOSFET SPICE $\{\text{rm Level}\}=3\}$ Template for Analog/RF Circuit Designs. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1391-1393	4.4	33
18	2013 ,		15
17	Overview of the EC project FLEXIBILITY: Organic and thin-film ICs up to radio frequencies for multifunctional flexible systems 2013 ,		3
16	2D Thin Film Temperature Sensors Fabricated onto 3D Nylon Yarn Surface for Smart Textile Applications. <i>Research Journal of Textile and Apparel</i> , 2013 , 17, 16-20	1.1	11
15	Woven active-matrix display. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 721-728	2.9	17
14	Design Rules for IGZO Logic Gates on Plastic Foil Enabling Operation at Bending Radii of 3.5 mm. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 2153-2159	2.9	39
13	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012 , 2, 1107-1117	1.7	38
12	Flexible a-IGZO TFT amplifier fabricated on a free standing polyimide foil operating at 1.2 MHz while bent to a radius of 5 mm 2012 ,		38
11	Locally reinforced polymer-based composites for elastic electronics. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2860-4	9.5	35
10	Mechanically flexible double gate a-IGZO TFTs 2012 ,		2
9	An electronic nose on flexible substrates integrated into a smart textile. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 81-86	8.5	49
8	In tube integrated electronic nose system on a flexible polymer substrate. <i>Sensors</i> , 2012 , 12, 13681-93	3.8	4

7	6.2.4 Influence of Flexible Substrate Materials on the Performance of Polymer Composite Gas Sensors 2012,		3
6	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2041-2048	2.9	130
5	A flexible InGaZnO based 1-bit SRAM under mechanical strain 2011,		7
4	Encapsulation for Flexible Electronic Devices. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1743-1745	4.4	36
3	Indium-gallium-zinc-oxide based mechanically flexible transimpedance amplifier. <i>Electronics Letters</i> , 2011 , 47, 691	1.1	14
2	Impact of Mechanical Bending on ZnO and IGZO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2010,	4.4	21
1	Woven electronic fibers with sensing and display functions for smart textiles. <i>Advanced Materials</i> , 2010 , 22, 5178-82	24	308