Gerhard Trster

List of Publications by Year in Descending Order

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

73 papers	2,727 citations	25 h-index	51 g-index
78 ext. papers	3,226 ext. citations	5.7 avg, IF	5.13 L-index

#	Paper	IF	Citations
73	Focused ion beam milling for the fabrication of 160 nm channel length IGZO TFTs on flexible polymer substrates. *Flexible and Printed Electronics*, **2020**, 5, 015007	3.1	8
72	Mobile Health Technologies for Continuous Monitoring of Cancer Patients in Palliative Care Aiming to Predict Health Status Deterioration: A Feasibility Study. *Journal of Palliative Medicine*, **2020**, 23, 678-685	2.2	12
71	Long-Term Aging of Al2O3 Passivated and Unpassivated Flexible a-IGZO TFTs. *IEEE Transactions on Electron Devices*, **2020**, 67, 4934-4939	2.9	2
70	Feasibility and Usability Aspects of Continuous Remote Monitoring of Health Status in Palliative Cancer Patients Using Wearables. *Oncology*, **2020**, 98, 386-395	3.6	18
69	5□1-Hz 188- mu W Light-Sensing Oscillator With Two Active Inductors Fully Integrated on Plastic. *IEEE Journal of Solid-State Circuits*, **2019**, 54, 2195-2206	5.5	5
68	Flexible Green Perovskite Light Emitting Diodes. *IEEE Journal of the Electron Devices Society*, **2019**, 7, 769-775	2.3	2
67	On the Bending and Stretching of Liquid Metal Receive Coils for Magnetic Resonance Imaging. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 1542-1548	5	11
66	Automatic Resonance Frequency Retuning of Stretchable Liquid Metal Receive Coil for Magnetic Resonance Imaging. *IEEE Transactions on Medical Imaging*, **2019**, 38, 1420-1426	11.7	3
65	A time to trust? The buffering effect of trust and its temporal variations in the context of high-reliability teams. *Journal of Organizational Behavior*, **2018**, 39, 1099-1112	6.9	10
64	Metal-Halide Perovskites for Gate Dielectrics in Field-Effect Transistors and Photodetectors Enabled by PMMA Lift-Off Process. *Advanced Materials*, **2018**, 30, e1707412	24	30
63	Flexible InGaZnO TFTs With ${f}$ $_{textsf{max}}$ Above 300 MHz. *IEEE Electron Device Letters*, **2018**, 39, 1310-1313	4.4	18
62	Flexible In□Ga□Zn□O Thin-Film Transistors With Sub-300-nm Channel Lengths Defined by Two-Photon Direct Laser Writing. *IEEE Transactions on Electron Devices*, **2018**, 65, 3796-3802	2.9	8
61	Evaluation of Piano Key Vibrations Among Different Acoustic Pianos and Relevance to Vibration Sensation. *IEEE Transactions on Haptics*, **2018**, 11, 212-219	2.7	1
60	Remotely Monitoring Cancer-Related Fatigue Using the Smart-Phone: Results of an Observational Study. *Information (Switzerland)*, **2018**, 9, 271	2.6	2
59	N-type to p-type transition upon phase change in Ge6Sb1Te2 compounds. *Applied Physics Letters*, **2018**, 113, 102105	3.4	2
58	Influence of Piano Key Vibration Level on Players□Perception and Performance in Piano Playing. *Applied Sciences (Switzerland)*, **2018**, 8, 2697	2.6	2
57	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. *IEEE Sensors Journal*, **2017**, 17, 3635-3643	4	6

56	Charge Trapping Mechanism Leading to Sub-60-mV/decade-Swing FETs. *IEEE Transactions on Electron Devices*, **2017**, 64, 2789-2796	2.9	22
55	Solution-processed p-type copper(I) thiocyanate (CuSCN) for low-voltage flexible thin-film transistors and integrated inverter circuits. *Applied Physics Letters*, **2017**, 110, 113504	3.4	25
54	Gain-Tunable Complementary Common-Source Amplifier Based on a Flexible Hybrid Thin-Film Transistor Technology. *IEEE Electron Device Letters*, **2017**, 38, 1536-1539	4.4	11
53	Ferroelectric-Like Charge Trapping Thin-Film Transistors and Their Evaluation as Memories and Synaptic Devices. *Advanced Electronic Materials*, **2017**, 3, 1700309	6.4	27
52	Adsorbed Eutectic GaIn Structures on a Neoprene Foam for Stretchable MRI Coils. *Advanced Materials*, **2017**, 29, 1703744	24	16
51	On-skin liquid metal inertial sensor. *Lab on A Chip*, **2017**, 17, 3272-3278	7.2	42
50	Biodegradable and Highly Deformable Temperature Sensors for the Internet of Things. *Advanced Functional Materials*, **2017**, 27, 1702390	15.6	116
49	Buckled Thin-Film Transistors and Circuits on Soft Elastomers for Stretchable Electronics. *ACS Applied Materials & Interfaces*, **2017**, 9, 28750-28757	9.5	40
48	Geometry-Based Tunability Enhancement of Flexible Thin-Film Varactors. *IEEE Electron Device Letters*, **2017**, 38, 1117-1120	4.4	3
47	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. *IEEE Electron Device Letters*, **2017**, 38, 1043-1046	4.4	5
46	eHealth and mHealth interventions in the treatment of fatigued cancer survivors: A systematic review and meta-analysis. *Psycho-Oncology*, **2017**, 26, 1239-1253	3.9	74
45	A Fully Integrated Dual-Channel On-Coil CMOS Receiver for Array Coils in 1.5-10.5 T MRI. *IEEE Transactions on Biomedical Circuits and Systems*, **2017**, 11, 1245-1255	5.1	15
44	Program FFlexCom □High frequency flexible bendable electronics for wireless communication systems **2017**,		6
43	mHealth Technologies for Palliative Care Patients at the Interface of In-Patient to Outpatient Care: Protocol of Feasibility Study Aiming to Early Predict Deterioration of Patient's Health Status. *JMIR Research Protocols*, **2017**, 6, e142	2	10
42	Entirely Flexible On-Site Conditioned Magnetic Sensorics. *Advanced Electronic Materials*, **2016**, 2, 1600188	6.4	26
41	Flexible a-IGZO Phototransistor for Instantaneous and Cumulative UV-Exposure Monitoring for Skin Health. *Advanced Electronic Materials*, **2016**, 2, 1600273	6.4	47
40	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT **2016**,		1
39	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT **2016**,		1

38	A wearable sensing system for timing analysis in tennis **2016**,		18
37	Naturalistic Recognition of Activities and Mood Using Wearable Electronics. *IEEE Transactions on Affective Computing*, **2016**, 7, 272-285	5.7	13
36	Metal oxide semiconductor thin-film transistors for flexible electronics. *Applied Physics Reviews*, **2016**, 3, 021303	17.3	380
35	Positive charge trapping phenomenon in n-channel thin-film transistors with amorphous alumina gate insulators. *Journal of Applied Physics*, **2016**, 120, 244501	2.5	16
34	Flexible InGaZnO Thin-Film Transistors on Elastomeric Substrate Bent to 2.3% Strain. *IEEE Electron Device Letters*, **2015**, 36, 781-783	4.4	31
33	Programmable e-textile composite Circuit **2015**,		4
32	Smartphone-based recognition of states and state changes in bipolar disorder patients. *IEEE Journal of Biomedical and Health Informatics*, **2015**, 19, 140-8	7.2	208
31	Bendable energy-harvesting module with organic photovoltaic, rechargeable battery, and a-IGZO TFT charging electronics **2015**,		6
30	Integrated CMOS receiver for wearable coil arrays in MRI applications **2015**,		6
29	Biomimetic Microelectronics for Regenerative Neuronal Cuff Implants. *Advanced Materials*, **2015**, 27, 6797-805	24	72
28	Stretchable and Conformable Oxide Thin-Film Electronics. *Advanced Electronic Materials*, **2015**, 1, 1400038	5.4	50
27	Wafer-scale design of lightweight and transparent electronics that wraps around hairs. *Nature Communications*, **2014**, 5, 2982	17.4	249
26	Flexible Self-Aligned Double-Gate IGZO TFT. *IEEE Electron Device Letters*, **2014**, 35, 69-71	4.4	56
25	Strap and row: Rowing technique analysis based on inertial measurement units implemented in mobile phones **2014**,		3
24	RFID-die **2014**,		3
23	Contact resistance and overlapping capacitance in flexible sub-micron long oxide thin-film transistors for above 100 MHz operation. *Applied Physics Letters*, **2014**, 105, 263504	3.4	47
22	Participatory Bluetooth Scans Serving as Urban Crowd Probes. *IEEE Sensors Journal*, **2014**, 14, 4196-4206	4	15
21	Towards Measuring Stress with Smartphones and Wearable Devices During Workday and Sleep. *BioNanoScience*, **2013**, 3, 172-183	3.4	175

20	Flexible Self-Aligned Amorphous InGaZnO Thin-Film Transistors With Submicrometer Channel Length and a Transit Frequency of 135 MHz. *IEEE Transactions on Electron Devices*, **2013**, 60, 2815-2820	2.9	80
19	IGZO TFT-Based All-Enhancement Operational Amplifier Bent to a Radius of 5 mm. *IEEE Electron Device Letters*, **2013**, 34, 1394-1396	4.4	67
18	Modeling arousal phases in daily living using wearable sensors. *IEEE Transactions on Affective Computing*, **2013**, 4, 93-105	5.7	21
17	Investigation of gate material ductility enables flexible a-IGZO TFTs bendable to a radius of 1.7 mm **2013**,		18
16	Monitoring of mental workload levels during an everyday life office-work scenario. *Personal and Ubiquitous Computing*, **2013**, 17, 229-239	2.1	123
15	The influence of bending on the performance of flexible carbon black/polymer composite gas sensors. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 329-336	2.6	11
14	A Compact a-IGZO TFT Model Based on MOSFET SPICE ${rm Level}=3$ Template for Analog/RF Circuit Designs. *IEEE Electron Device Letters*, **2013**, 34, 1391-1393	4.4	33
13	Collection and curation of a large reference dataset for activity recognition **2011**,		7
12	. *IEEE Transactions on Electron Devices*, **2011**, 58, 2041-2048	2.9	130
11	Encapsulation for Flexible Electronic Devices. *IEEE Electron Device Letters*, **2011**, 32, 1743-1745	4.4	36
10	Woven Thin-Film Metal Interconnects. *IEEE Electron Device Letters*, **2010**, 31, 740-742	4.4	61
9	Impact of Mechanical Bending on ZnO and IGZO Thin-Film Transistors. *IEEE Electron Device Letters*, **2010**,	4.4	21
8	Designing micro-patterned Ti films that survive up to 10% applied tensile strain. *Applied Physics A: Materials Science and Processing*, **2010**, 100, 281-285	2.6	9
7	Unobtrusive physiological monitoring in an airplane seat. *Personal and Ubiquitous Computing*, **2010**, 14, 541-550	2.1	17
6	Rapid prototyping of smart garments for activity-aware applications. *Journal of Ambient Intelligence and Smart Environments*, **2009**, 1, 87-101	2.2	21
5	Using ensemble classifier systems for handling missing data in emotion recognition from physiology: One step towards a practical system **2009**,		7
4	Influence of a loose-fitting sensing garment on posture recognition in rehabilitation **2008**,		10
3	Fundamental Building Blocks for Circuits on Textiles. *IEEE Transactions on Advanced Packaging*, **2007**, 30, 541-550		55

2 Textile UWB antenna for on-body communications **2006**, 15

1 Characteristic Impedance Deembeding of Printed Lines with the Probe-Tips Calibrations **2002**, 2