

Gerhard Trster

List of Publications by Citations

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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	Metal oxide semiconductor thin-film transistors for flexible electronics. <i>Applied Physics Reviews</i> , 2016 , 3, 021303	17.3	380
72	Wafer-scale design of lightweight and transparent electronics that wraps around hairs. <i>Nature Communications</i> , 2014 , 5, 2982	17.4	249
71	Smartphone-based recognition of states and state changes in bipolar disorder patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 140-8	7.2	208
70	Towards Measuring Stress with Smartphones and Wearable Devices During Workday and Sleep. <i>BioNanoScience</i> , 2013 , 3, 172-183	3.4	175
69	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2041-2048	2.9	130
68	Monitoring of mental workload levels during an everyday life office-work scenario. <i>Personal and Ubiquitous Computing</i> , 2013 , 17, 229-239	2.1	123
67	Biodegradable and Highly Deformable Temperature Sensors for the Internet of Things. <i>Advanced Functional Materials</i> , 2017 , 27, 1702390	15.6	116
66	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
65	eHealth and mHealth interventions in the treatment of fatigued cancer survivors: A systematic review and meta-analysis. <i>Psycho-Oncology</i> , 2017 , 26, 1239-1253	3.9	74
64	Biomimetic Microelectronics for Regenerative Neuronal Cuff Implants. <i>Advanced Materials</i> , 2015 , 27, 6797-805	24	72
63	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
62	Woven Thin-Film Metal Interconnects. <i>IEEE Electron Device Letters</i> , 2010 , 31, 740-742	4.4	61
61	Flexible Self-Aligned Double-Gate IGZO TFT. <i>IEEE Electron Device Letters</i> , 2014 , 35, 69-71	4.4	56
60	Fundamental Building Blocks for Circuits on Textiles. <i>IEEE Transactions on Advanced Packaging</i> , 2007 , 30, 541-550		55
59	Stretchable and Conformable Oxide Thin-Film Electronics. <i>Advanced Electronic Materials</i> , 2015 , 1, 14000384	3.4	50
58	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
57	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

56	On-skin liquid metal inertial sensor. <i>Lab on A Chip</i> , 2017 , 17, 3272-3278	7.2	42
55	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
54	Encapsulation for Flexible Electronic Devices. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1743-1745	4.4	36
53	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
52	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
51	Metal-Halide Perovskites for Gate Dielectrics in Field-Effect Transistors and Photodetectors Enabled by PMMA Lift-Off Process. <i>Advanced Materials</i> , 2018 , 30, e1707412	2.4	30
50	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
49	Entirely Flexible On-Site Conditioned Magnetic Sensorics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600184	8.4	26
48	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
47	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
46	Modeling arousal phases in daily living using wearable sensors. <i>IEEE Transactions on Affective Computing</i> , 2013 , 4, 93-105	5.7	21
45	Impact of Mechanical Bending on ZnO and IGZO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2010 ,	4.4	21
44	Rapid prototyping of smart garments for activity-aware applications. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2009 , 1, 87-101	2.2	21
43	A wearable sensing system for timing analysis in tennis 2016 ,		18
42	Flexible InGaZnO TFTs With $\{f\}$ $\}_{\text{texts}\{f\}\}$ Above 300 MHz. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1310-1313	4.4	18
41	Investigation of gate material ductility enables flexible a-IGZO TFTs bendable to a radius of 1.7 mm 2013 ,		18
40	Feasibility and Usability Aspects of Continuous Remote Monitoring of Health Status in Palliative Cancer Patients Using Wearables. <i>Oncology</i> , 2020 , 98, 386-395	3.6	18
39	Unobtrusive physiological monitoring in an airplane seat. <i>Personal and Ubiquitous Computing</i> , 2010 , 14, 541-550	2.1	17

38	Adsorbed Eutectic GaIn Structures on a Neoprene Foam for Stretchable MRI Coils. <i>Advanced Materials</i> , 2017 , 29, 1703744	24	16
37	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
36	A Fully Integrated Dual-Channel On-Coil CMOS Receiver for Array Coils in 1.5-10.5 T MRI. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 1245-1255	5.1	15
35	Participatory Bluetooth Scans Serving as Urban Crowd Probes. <i>IEEE Sensors Journal</i> , 2014 , 14, 4196-4206	4	15
34	Textile UWB antenna for on-body communications 2006 ,		15
33	Naturalistic Recognition of Activities and Mood Using Wearable Electronics. <i>IEEE Transactions on Affective Computing</i> , 2016 , 7, 272-285	5.7	13
32	Mobile Health Technologies for Continuous Monitoring of Cancer Patients in Palliative Care Aiming to Predict Health Status Deterioration: A Feasibility Study. <i>Journal of Palliative Medicine</i> , 2020 , 23, 678-685	2.2	12
31	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
30	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
29	On the Bending and Stretching of Liquid Metal Receive Coils for Magnetic Resonance Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1542-1548	5	11
28	A time to trust? The buffering effect of trust and its temporal variations in the context of high-reliability teams. <i>Journal of Organizational Behavior</i> , 2018 , 39, 1099-1112	6.9	10
27	Influence of a loose-fitting sensing garment on posture recognition in rehabilitation 2008 ,		10
26	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. <i>JMIR Research Protocols</i> , 2017 , 6, e142	2	10
25	Designing micro-patterned Ti films that survive up to 10% applied tensile strain. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 281-285	2.6	9
24	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
23	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
22	Collection and curation of a large reference dataset for activity recognition 2011 ,		7
21	Using ensemble classifier systems for handling missing data in emotion recognition from physiology: One step towards a practical system 2009 ,		7

20	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. <i>IEEE Sensors Journal</i> , 2017 , 17, 3635-3643	4	6
19	Program FFlexCom High frequency flexible bendable electronics for wireless communication systems 2017 ,		6
18	Bendable energy-harvesting module with organic photovoltaic, rechargeable battery, and a-IGZO TFT charging electronics 2015 ,		6
17	Integrated CMOS receiver for wearable coil arrays in MRI applications 2015 ,		6
16	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
15	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1043-1046	4.4	5
14	Programmable e-textile composite Circuit 2015 ,		4
13	Strap and row: Rowing technique analysis based on inertial measurement units implemented in mobile phones 2014 ,		3
12	Geometry-Based Tunability Enhancement of Flexible Thin-Film Varactors. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1117-1120	4.4	3
11	RFID-die 2014 ,		3
10	Automatic Resonance Frequency Retuning of Stretchable Liquid Metal Receive Coil for Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1420-1426	11.7	3
9	Flexible Green Perovskite Light Emitting Diodes. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 769-775	2.3	2
8	Characteristic Impedance Deembedding of Printed Lines with the Probe-Tips Calibrations 2002 ,		2
7	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
6	Remotely Monitoring Cancer-Related Fatigue Using the Smart-Phone: Results of an Observational Study. <i>Information (Switzerland)</i> , 2018 , 9, 271	2.6	2
5	N-type to p-type transition upon phase change in Ge ₆ Sb ₁ Te ₂ compounds. <i>Applied Physics Letters</i> , 2018 , 113, 102105	3.4	2
4	Influence of Piano Key Vibration Level on Players' Perception and Performance in Piano Playing. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2697	2.6	2
3	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1

2	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,	1
1	Evaluation of Piano Key Vibrations Among Different Acoustic Pianos and Relevance to Vibration Sensation. <i>IEEE Transactions on Haptics</i> , 2018 , 11, 212-219	2.7 1