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Tilo Meister received the Diploma degree in electrical engineering and the Ph.D. (Dr.-Ing.) degree from the Technische Universität Dresden, Dresden, Germany, in 2006 and 2012, respectively. He is currently a Senior Researcher, fast Zwanzig20 Operational Manager, and the FFlexCom Program Manager with the Chair for Circuit Design and Network Theory, Technische Universität Dresden. He also served as a member of the TPC of the International Solid-State Circuits Conference (ISSCC). His current research interests include modeling and circuit design for flexible electronics, Beyond Moore's technologies, and millimeter-wave IC design in silicon-based technologies.

## Ausgewählte Publikationen

### **8.0-pJ/bit BPSK Transmitter With LO Phase Steering and 52-Gbps Data Rate Operating at 246 GHz**

Steinweg, L., Hebler, J., Meister, T., Zwick, T. & Ellinger, F., Juli 2023, in: IEEE transactions on microwave theory and techniques. 71, 7, S. 3217-3226 10 S.

### **Monolithic Integration, Performance, and Comparison of Self-Aligned and Conventional IGZO Thin-Film Transistors on a Flexible Substrate**

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### **Flexible Electronics for Wireless Communication: A Technology and Circuit Design Review With an Application Example**

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### **Mechanical and Electrical Design Strategies for Flexible InGaZnO Circuits**

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### **Tools and strategies to optimize the electrical and mechanical properties of flexible IGZO TFTs**

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### **Review of recent trends in flexible metal oxide thin-film transistors for analog applications**

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### **3.93-MHz/328- μW Dynamic Frequency Divider in Flexible a-IGZO TFT Technology**

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### **49.35 MHz GBW and 33.43 MHz GBW amplifiers in flexible a-IGZO TFT technology**

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### **Focused ion beam milling for the fabrication of 160 nm channel length IGZO TFTs on flexible polymer substrates**

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### **5-31-Hz 188- $\mu$ W Light-Sensing Oscillator With Two Active Inductors Fully Integrated on Plastic**

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### **Design of bendable high-frequency circuits based on short-channel InGaZnO TFTs**

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### **20.3dB 0.39mW AM Detector with Single-Transistor Active Inductor in Bendable a-IGZO TFT**

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### **Radio frequency electronics in a-IGZO TFT technology (invited)**

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### **A Fully-Printed Self-Biased Polymeric Audio Amplifier for Driving Fully-Printed Piezoelectric Loudspeakers**

Kheradmand-Boroujeni, B., Schmidt, G. C., Höft, D., Bellmann, M., Haase, K., Ishida, K., Shabanpour, R., & 5 weitere Meister, T., Carta, C., Ghesquiere, P., Hübler, A. C. & Ellinger, F., Juni 2016, in: *IEEE Transactions on Circuits and Systems* : a publication of the IEEE Circuits and Systems Society. 1, Regular Papers. 63, 6, S. 785-794 10 S.

### **Design and analysis of high-gain amplifiers in flexible self-aligned a-IGZO thin-film transistor technology**

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### **Baseband amplifiers in a-IGZO TFT technology for flexible audio systems**

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### **Textile Loop Antenna and TFT Channel-Select Circuit for Fully Bendable TFT Receivers**

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