

# IEEE OPEN JOURNAL OF THE SOLID-STATE CIRCUITS SOCIETY Special Section on *Integrated Circuits and Systems Based on Thin-Film Transistors*

## I. INTRODUCTION

**T**HIN-FILM transistors (TFTs) are ubiquitous today as a backplane technology for various display and imager products. Those transistors act as switches in active-matrix liquid-crystal displays (AM-LCDs) or as full-pixel engines, including driving and threshold compensation, in active-matrix organic light-emitting diodes (AM-OLEDs) panels. TFT manufacturing requires only a limited amount of photolithographic steps, making it a relatively simple transistor technology, compared to the traditional Si CMOS technologies. The processing temperature of TFT technologies is sufficiently low to be compatible with glass and can even enable flexible substrates. Finally, these transistors have been developed specifically for large-area applications, such as televisions and X-ray scanners. Consequently, the backplane size for TFTs has evolved from the generation-1 glass panel of 270 mm by 360 mm to generation-10.5, which is manufactured on a glass panel of 2.94 m  $\times$  3.37 m [1]. This is profoundly different from traditional Si CMOS integrated circuits, which are fabricated nowadays on 200 mm or 300 mm round wafers. The critical dimension of the TFT technology on glass or flexible substrate in production is in the range of a few micrometers. The TFT research in the display field focuses on enabling increasingly better pixel resolution, improved visual quality, larger panels for LED walls, flexible displays, camera-behind display, sensor integration, and many more.

The four most popular TFT technologies are based on different semiconductors [2], more precisely amorphous silicon, or a-Si, complex amorphous metal oxides, such as Indium-Gallium-Zinc-Oxide or IGZO, low-temperature polycrystalline silicon or LTPS, and organic semiconductors. A-Si, LTPS, and IGZO are commercially available in backplane products today, each with their own advantages. A-Si and IGZO exhibit the simplest process flow, can be upscaled to the largest panel sizes, and yield therefore the lowest cost per unit area, however, both are unipolar technologies, e.g., IGZO enables only n-type transistors posing some challenges to the backplane design. LTPS on the contrary has both p-type and n-type TFTs available and provides a higher charge carrier mobility compared to IGZO and a-Si, at the cost of a more complex process flow, a lower upscaling possibility for larger substrates and therefore a larger cost per

unit area. A recent trend is the hybrid integration of n-type IGZO transistors with their superior leakage characteristics and p-type LTPS transistors enabling complementary circuits and backplanes for display products [3], [4].

The key advantages of TFTs, such as the potential for large-area manufacturing on flexible surfaces at a relatively low cost per unit area make them also attractive for applications beyond the display and imager fields. Novel emerging applications can be categorized as array-based [5], [6], [7], [8], [9], [10] or individual-integrated-circuits-based [11], [12], [13], [14], [15], [16], [17]. Array-based electronics, similar to displays, combines several identical pixels into arrays, e.g., to interface an array of biosensors, to control droplet movements in lab-on-chip applications like microfluidics, or to drive actuators, such as piezoelectric micromachined ultrasonic transducer (pMUT) and capacitive micromachined ultrasonic transducer (cMUT) arrays for large-area mid-air haptic feedback applications. Individual integrated circuits manufactured with TFTs can be used for peripheral or standalone electronics. The former encompasses integrated readout and drive circuitry acting as an interface between the pixel arrays and Si CMOS chips, which take care of more complex backend and/or communication functions. The latter category consists of standalone integrated TFT circuits for Internet-of-Things applications, such as sensor tags, wearable health patches, etc.

This special section covers three diverse and interesting papers that deal with new concepts in the field of TFT electronics. The first invited publication [A1] focuses on large-area electronics devices based on zinc-oxide transistors for wireless and Internet of Things. The target application is large-area wireless energy transfer, either using the base carrier frequency of 13.56 MHz for radio-frequency identification reader arrays or using GHz phased arrays for far-field radiation beam steering. This work clearly shows that technology-aware design concepts can enable unprecedented approaches for future applications.

The second paper [A2] focuses on an ultra-high sensitivity biosensor array application based on electrolyte-gated organic TFTs. The innovation in this work is to enable interfacing between a Si CMOS front-end and the organic biosensors using organic TFT (OTFT) electronics. The Si CMOS and biosensors operate at 1.2 V, whereas the OTFTs

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## **Table of Contents 308 Ieee Journal Of Solid State Circuits Vol 46 No 1**

1. Understanding the eBook 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - The Rise of Digital Reading 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Advantages of eBooks Over Traditional Books
2. Identifying 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Personalized Recommendations
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 User Reviews and Ratings
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 and Bestseller Lists

5. Accessing 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 Free and Paid eBooks
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 Public Domain eBooks
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 eBook Subscription Services
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 Budget-Friendly Options
6. Navigating 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 Compatibility with Devices
  - 308 Ieee Journal Of Solid State Circuits Vol 46 No 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Highlighting and Note-Taking 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Interactive Elements 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
8. Staying Engaged with 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
9. Balancing eBooks and Physical Books 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Setting Reading Goals 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Fact-Checking eBook Content of 308 Ieee Journal Of Solid State Circuits Vol 46 No 1
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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