



# Transparent Oxide Electronics: From Materials to Devices

*Pedro Barquinha, Rodrigo Martins, Luis Pereira, Elvira Fortunato*

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Transparent electronics is emerging as one of the most promising technologies for the next generation of electronic products, away from the traditional silicon technology. It is essential for touch display panels, solar cells, LEDs and antistatic coatings.

The book describes the concept of transparent electronics, passive and active oxide semiconductors, multicomponent dielectrics and their importance for a new era of novel electronic materials and products. This is followed by a short history of transistors, and how oxides have revolutionized this field. It concludes with a glance at low-cost, disposable and lightweight devices for the next generation of ergonomic and functional discrete devices. Chapters cover:

- Properties and applications of n-type oxide semiconductors
- P-type conductors and semiconductors, including copper oxide and tin monoxide
- Low-temperature processed dielectrics
- n and p-type thin film transistors (TFTs) – structure, physics and brief history
- Paper electronics – Paper transistors, paper memories and paper batteries
- Applications of oxide TFTs – transparent circuits, active matrices for displays and biosensors

Written by a team of renowned world experts, *Transparent Oxide Electronics: From Materials to Devices* gives an overview of the world of transparent electronics, and showcases groundbreaking work on paper transistors

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