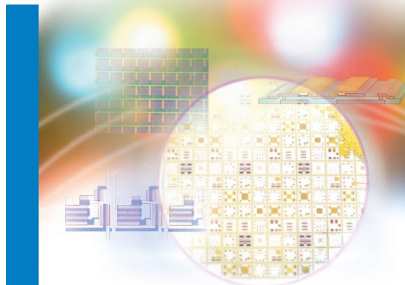


Flora M. Li, Arokia Nathan, Yiliang Wu, Beng S. Ong

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Organic Thin Film Transistor Integration

A Hybrid Approach



Organic Thin Film Transistor Integration

Author : Flora Li Arokia Nathan Yiliang Wu Beng S Ong /

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Summary : Free organic thin film transistor integration pdf download - research on organic electronics or plastic electronics is driven by the need to create systems that are lightweight unbreakable and mechanically flexible with the remarkable improvement in the performance of organic semiconductor materials during the past few decades organic electronics appeal to innovative practical and broad-impact applications requiring large-area coverage mechanical flexibility low-temperature processing and low cost thus organic electronics appeal to a broad range of electronic devices and products including transistors diodes sensors solar cells lighting displays and electronic identification and tracking devices a number of commercial opportunities have been identified for organic thin film transistors offts ranging from flexible displays electronic paper radio-frequency identification rfid tags smart cards to low-cost disposable electronic products and more are continually being invented as the technology matures the potential applications for plastic electronics are huge but several technological hurdles must be overcome in many of these applications transistor serves as a fundamental building block to implement the necessary electronic functionality hence research in organic thin film transistors offts or organic field effect transistors ofets is eminently pertinent to the development and realization of organic electronics this book presents a comprehensive investigation of the production and application of a variety of polymer based transistor devices and circuits it begins with a detailed overview of organic thin film transistors offts and discusses the various possible fabrication methods reported so far this is followed by two major sections on the choice optimization and implementation of the gate dielectric material to be used details of the effects of processing on the efficiency of the contacts are then provided the book concludes with a chapter on the integration of such devices to produce a variety of offt based circuits and systems the key objective is to examine strategies to exploit existing materials and techniques to advance offt technology in device performance device manufacture and device integration finally the collective knowledge from these investigations facilitates the integration of offts into organic circuits which is expected to contribute to the

development of new generation of all-organic displays for communication devices and other pertinent applications overall a major outcome of this work is that it provides an economical means for organic transistor and circuit integration by enabling the use of a well-established pecvd infrastructure while not compromising the performance of electronics the techniques established here are not limited to use in otfts only the organic semiconductor and sinx combination can be used in other device structures e g sensors diodes photovoltaics furthermore the approach and strategy used for interface optimization can be extended to the development of other materials systems

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polymer-based mems accelerometer with modified organic ... - integrated. a modified organic thin film tft is used for such integration. the technology of organic tft ... integrated with organic thin film transistor.

all-printed organic tft backplanes for flexible electronic ... - all-printed organic tft backplanes for flexible electronic paper ... 160 ppi and 200 ppi all-printed organic thin film transistor ... process integration,

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different work regimes of an organic thin film transistor ... - different work regimes of an organic thin film transistor ... circuit integration technology and the polyimide processing was proved, [10].

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