

öTowards Plastic Electronicsö

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Abstract

Over the last decade, great advances have been made in the field of organic electronics. A first generation of visible organic light emitting devices has been commercialized (MP3 players, TV displays, í). Organic solar cells with power conversion efficiencies as high as 6 % have been reported. Printed organic thin film transistor circuits containing hundreds of active gates have been operated at frequencies exceeding 10 MHz. This talk will review basic concepts describing the principle, design, fabrication, and operation of three dominant types of organic electronic devices : light emitting diodes (OLED), photovoltaic cells (OPV), and field effect transistors (OFET). The talk aims to present a broad survey and recent advances in this field of Organic Electronics.