**Electronic Devices Based on Organic Components**

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Abstract: The performance of electronic devices based on organic/polymer components such as light-emitting diodes, thin-film transistor, and organic solar cell have been improved dramatically recently, and some of them have been reached to the level of commercialization. Nevertheless, the development of organic/polymer components for the organic devices is still very challenging for further improvement. In the beginning of this presentation, organic semiconductor as an active layer for electronic devices will be discussed in terms of its structure and property. Various formation methods of for organic semiconductors crystal, which are free of grain boundaries and have long-range periodic order as well as minimal traps and defects, will be discussed in detail. In the remaining part of the presentation, the fabrication and performance evaluation of the organic devices such as organic thin-film transistors and simple logic circuit will be covered.