

2023 RIKEN SUMMER SCHOOL LECTURE TITLE AND ABSTRACT

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Title: Basic principles and characteristics of organic electronic devices

Abstract

Recently, organic electronics can give a great opportunity to achieve flexible electronic devices. The definition of organic electronics is that an organic semiconductor is used in a device. The typical devices include organic light-emitting diodes (OLEDs), organic photovoltaics (OPVs), organic photodetectors (OPDs), and organic thin-film transistors (OTFTs). In this lecture, I will show the basic principles of organic electronic devices, important parameters to be evaluated such as flexibility and stretchability, and potential applications using organic electronics.