

Organic Electronics Seminar

Organic Electronics: Smart Structures and Neuromorphic Computing

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日時 : 2024年5月31日 (金) 15:00~16:30

場所 : 工学部A4棟8階セミナー室

講演概要 :

Organic Electronics are a new type of electronics that rely on carbon-based materials such as polymers and small molecules. The main advantages of organic electronics, specifically as compared with inorganic electronics, are due to their manufacturing technologies, and include large area, low cost, and low temperature fabrication, for instance via the use of solution processing and additive manufacturing, as well as lightweight, mechanical flexibility, biocompatibility, ease of fabrication integration with multitude of substrates, and tunable electrical and optical properties. This talk will provide a brief background of device physics and application of organic electronics, and present four different applications / research directions, namely (1) printed organic electronic sensors, (2) printed organic electronics transistors, (3) organic bio-electronics, and (4) organic neuromorphic computing.

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