

Organic Electronics Seminar

Recent Progress in Organic Solar Cells by Materials and Device Structures from Actives to Interlayers

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日時 : 2024年10月3日 (木) 15:00~16:30

場所 : 工学部A4棟8階セミナー室



講演概要 :

Recently, organic solar cells have achieved rapid increase in efficiency since non-fullerene acceptors were announced. This is because the voltage can be increased by using the organic semiconductor properties that can adjust the band gap according to the molecular structure. It is also because the current increase is achieved by adjusting the mutual stacking structure of the donor and acceptor. Interlayers such as HTL and ETL can also adjust the band gap and change the properties of the surface to facilitate the flow of electrons and holes. As such, organic semiconductors can provide various properties depending on the molecular structure.

In this seminar, I would like to introduce the research trend of organic solar cell materials and devices that have recently achieved high efficiency and the research results of this lab. On the other hand, I will briefly introduce the recent research results of translucent organic solar cells.

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