

触媒化学融合研究センター講演会

Prof. Doo Kyung Moon (Konkuk University, KOREA)

産総研触媒化学融合研究センターでは、様々な分野で活躍している大学、公的研究機関、企業等の方々をお招きして、講演会を開催することで分野の垣根を越えた連携の実現を目指しています。
多くの方々のご参加をお待ちしております。

日時: 2023年8月22日(火) 15:00~16:00

場所: 産総研第5事業所第2本館 第4会議室(6603室)

<講演概要>

15:00~16:00

◆ Recent Research Trends and Applications of Organic Solar Cells under Band Gap Control of Organic Semiconductor Materials

<講師>

Konkuk University, KOREA

Prof. Doo Kyung Moon



講演概要

Following the commercialization of OLED, organic semiconductors are attracting attention as they can adjust various band gaps according to their molecular structure. In particular, OPV, which uses light and transparent organic semiconductor materials, is attracting great attention as a possible urban solar cell (BIPV) in the era of carbon neutrality. Recently, PCE of up to 20% has been reported due to the development of Y6 type derivatives to be introduced into the active layer of BHJs and research on the device structures.

This lecture introduces the development trends of organic solar cells such as efficiency, stability, transparency according to molecular structure, device structure, and module.