第75回 OPERA研究交流セミナー
第68回 ISIT有機光エレクトロニクス研究特別室セミナー
第134回 未来化学創造センターセミナー

日時：2012年2月21日（木） 15:00-17:00

場所：九州大学 最先端有機光エレクトロニクス研究棟 3F会議室

“Design, Synthesis and Characterization of Fluorene-Based Monodisperse Conjugated Oligomers/Polymers”

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Compared with polydisperse conjugated polymers (CPs), monodisperse conjugated oligomers/polymers (MCOs/MCPs) are characterized with well-defined structures and ease of purification and characterization. Hence, MCOs/MCPs are ideal model compounds for establishing the structure-property relationships of various conjugated systems. The properties of CPs achieve the saturation points at high molecular weights. However, the synthesis of MCPs with molecular weight > 10000 Da is still of great challenge. In view of this, one class of the most important CPs - polyfluorenes was chosen, and synthetic methods, relationships between the properties and chain-length, and the effect of end groups on the properties were studied in detail.

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