

固体化学特別講演会のお知らせ

日時：平成26年2月24日（月）13:30~14:30

場所：理学部6号館低層等2階 6-204-02室

“Complex conjugated architectures – from synthesis through to device applications”

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Well-defined and monodisperse oligomers can be considered to be intermediate of conjugated small molecules and polymers, and can feature the best of both sets of attributes. Precise HOMO/LUMO energy levels, high thermal stability, good solubility and excellent film-forming properties are common features that can be achieved in such materials. Moreover, the precise structure of the material is known (compared with polydisperse systems) and this makes our understanding of structure-property relationships much easier to establish. No single generic material is perfect and the main drawback of well-defined oligomers is in their synthesis. The synthetic procedures are normally more complex than for small molecules and polymers requiring, in some cases, several iterative steps. The synthesis and properties of some monodisperse conjugated star-shaped structures are presented.

