

23rd RAP Seminar

The 23rd Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

Date: May 22(Fri) 16:00 - 17:00, 2015

Location: Cooperation Center, 3F, W319, Wako Campus, RIKEN

(理研 和光キャンパス 研究交流棟3階会議室 W319)

Title: Novel Functions Created from Molecular Assembly and Molecular Transcription

分子集合と分子転写に由来する機能開発

Speaker:

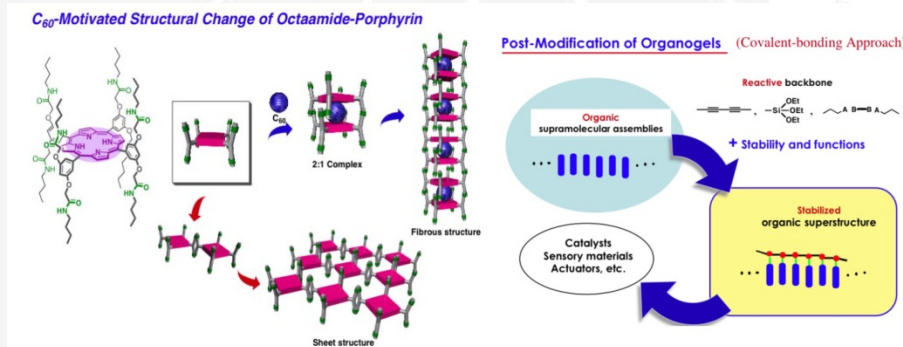
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Combination of supramolecular chemistry with molecular recognition has been successfully applied to creating large superstructures with a wide variety of morphologies. Control of shapes and patterns of ordered molecular assemblies in nano and micro scales has attracted considerable interest as promising bottom-up technology leading to creation of novel functions. This lecture focuses on recent advances in molecular orientation facilitated by guest inclusion, *in situ* post-modification under the influence of the molecular assemblies, and transcription using organogel superstructures as templates.[1,2]



[1] For a review, see K. Sada, M. Takeuchi, N. Fujita, M. Numata and S. Shinkai, *Chem. Soc. Rev.*, 2007, 36, 415-435.

[2] I. Hwang et al., *Angew. Chem. Int. Ed.*, 2007, 46, 210-213; P. Mukhopadhyay et al., *ibid.*, 2006, 45, 1592-1595; T. Kishida et al., *Org. Biomol. Chem.*, 2006, 4, 1902-1909.