

第 29 回機能物質化学講演会のお知らせ

日時：2017年6月14日（水）午後3時00分～4時30分

会場：J棟505室

講師：Rémi Metivier 先生

(Ecolé Normale Supérieure Paris-Saclay PPSM グループリーダー)

演題：Photo- and mechano-responsive fluorescent nanosystems

講演概要：青山学院大学機能物質化学講演会では、機能性分子科学の研究でご活躍されている世界的に著名な先生方をお招きして最先端の研究をご紹介します。今回は、ENS Paris-Saclay の Rémi Metivier 先生をお招きし、光および応力応答型蛍光性ナノ材料について解説して頂きます。



The field of advanced fluorescent nanomaterials, with photo-induced or mechano-induced switching capabilities, is extremely attractive for their potential applications in high-resolution imaging or biological sensors. We report here on the design, fabrication and spectroscopy of two different kinds of systems. First, photochromic-fluorescent multichromophoric molecules and nanoparticles revealed that the emission signal could be successfully switched by light by means of multiple energy transfer pathways. Second, mechanofluorochromic organic materials have been prepared and characterized by spectroscopy and microscopy, showing fluorescence and morphology modifications upon mechanical and thermal treatments, from the macro- to the nanoscale.

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