

談話会のお知らせ

共催：化学科談話会、物質科学科談話会

Functional Materials, Electronic Devices and Sensors through Molecular Self-assembly

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平成21年11月9日(月) 11:00～12:00

理学研究科会議室

Yakhmi教授は、本学での招待講演、第3回日露「開殻系分子・スピンドバイス」国際ワークショップでの招待講演、広島大学、及び大阪府立大学での短期招聘のために、11月8日から約2週間滞在します。

Abstract

In the present talk, we highlight our attempts to utilize self-assembly methods to prepare functional molecular materials and their films (SAMs or LB) to fabricate devices. We shall describe the use of DNA, or a SAM, or simply a surfactant monolayer at the air-water-interface, as templates for growth of crystals of functional materials. Towards the fabrication of sensors, we shall discuss our attempts to prepare gas sensors from LB films of polymers, or K-ion sensors from LB films of surfactant encapsulated crystals of Prussian Blue Analogues. In addition, we will discuss our work on the fabrication of selective gas sensors from films made of composites of polymers and oxide nanowires.

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